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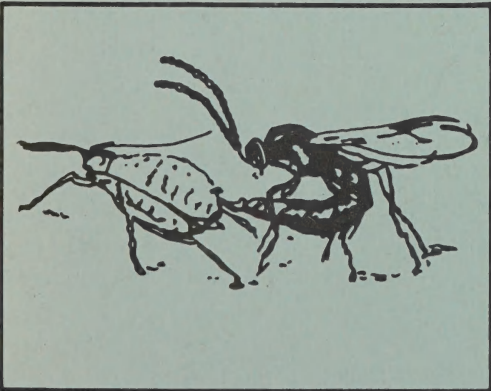
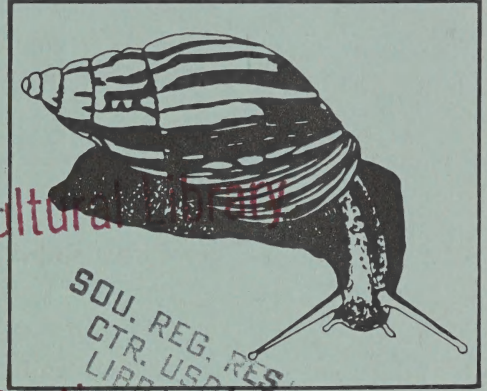
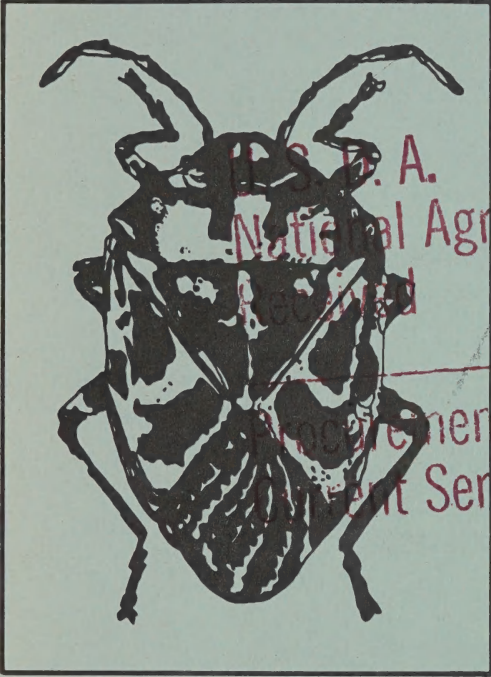
Plant Protection
and Quarantine

Cooperative Plant Pest Report

June 6, 1980

Vol. 5

No. 19



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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

GREENBUG damaged young sorghum in a site in Nebraska. (p. 359).

ALFALFA WEEVIL held back alfalfa regrowth in northeastern, west-central, and central parts of Oklahoma. (p. 360).

Damage by BEAN LEAF BEETLE to soybean seedlings in southeastern area of Nebraska. (p. 361).

Some First Occurrences of the Season

YELLOW SUGARCANE APHID on johnsongrass in Oklahoma. CODLING MOTH adults in New Hampshire. CORN EARWORM larvae on peanuts in Florida. PLUM CURCULIO adults in New Hampshire.

Reports in this issue are for the week ending May 30 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - ALABAMA - Area> larval, 3rd to 4th instars, counts (average) per 25 corn [host stage] plants in number of fields (f) week of May 27: Gulf Coast> 3-13 (8) [tassel] in 3f (L.W. Lockhart) and Coastal Plains> 3-6 (5) [late whorl] in 3f (T. Lemons). MINNESOTA - Field cornstalks collected in fall of 1979 and held over winter were dissected week of May 11, 1980. (D.D. Sreenivasam).

District	Mortality factors		Parasitism by <i>Erioborus terebrans</i> (an Ichneumonid wasp) (%)	Borer survival (%)
	<i>Beauveria bassiana</i> (a corn borer fungus)(%)	Unknown (%)		
WC	33.3	66.7	-	0.0
SC	9.1	72.7	9.1	9.1
SE	14.3	71.4	-	14.3

CORN EARWORM (*Heliothis zea*) - ALABAMA - Area> larval counts (average) per 25 corn [host stage] plants in number of fields (f) week of May 27: Wiregrass> 3rd to 4th instars 1-7 (3) [late whorl] in 8f (W.N. Stephenson), Gulf Coast> 3rd to 4th instars 1-3 (2) [tassel] in 6f (L.W. Lockhart), and Coastal Plains> 2nd to 3rd instars 1-6 (3) [late whorl] in 3f (T. Lemons).

FALL ARMYWORM (*Spodoptera frugiperda*) - ALABAMA - Area> 3rd instar larval average per 25 corn [late whorl] plants week of May 27: Coastal Plains> 1 in 1 field. (T. Lemons).

DINGY CUTWORM (*Feltia ducens*) - NEBRASKA - District> County= this species and DARKSIDED CUTWORM (*Euxoa messoria*) on corn May 19-21: E> Butler, York, Merrick, Nance, C> Hall, Howard, Buffalo, and S> Kearney= larvae cut or chewed 7% of seedlings in 2 of 45 fields and 13% of plants in third field, all 3 fields in rotation program. Plant stands erratic due to moisture problems. (Monke).

SOUTHERN CORN ROOTWORM (*Diabrotica undecimpunctata howardi*) - ALABAMA - Area> adult averages per 25 corn [host stage] plants in number of fields (f) May 27: Wiregrass> 1 [late whorl] in 1f (W.N. Stephenson) and Gulf Coast> 1 [tassel] in 2f (L.W. Lockhart).

GREENBUG (*Schizaphis graminum*) - NEBRASKA - District> County= counts (averages) per sorghum [3-leaf] plant in 1 field May 21: E> Lancaster= 1st and 2nd instar nymphs 5-95 (30) and winged adults 3-20 (7). Lowest leaf of each plant red-dened, other 2 leaves yellowed. (Keith).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - PENNSYLVANIA - District> County= prevalence on 'Bart' wheat May 15: SE> Lancaster= 10% on 2 ha. (D.T. Ware).

BARLEY LEAF RUST (*Puccinia hordei*) - DELAWARE - District> County= prevalence/severity on barley [kernel watery ripe] May 19: N> New Castle= trace/less than 5%. (J.B. Helbig).

RYE LEAF RUST (*Puccinia recondita* f.sp. *secalis*) - DELAWARE - District> County= prevalence/severity on rye [anthesis] May 19: N> New Castle= 90%/25%. (J.B. Helbig).

BARLEY POWDERY MILDEW (*Erysiphe graminis* f.sp. *hordei*) - PENNSYLVANIA - District> County= prevalence on 'Barsoy' barley May 8: SC> York= heavy. (D. Bingaman).

LOOSE SMUT (*Ustilago nuda*) - DELAWARE - District> County= prevalence on barley [anthesis] May 12: S> Sussex= less than 5%. (S. Leath).

TURF, PASTURES, RANGELAND

INSECTS

YELLOW SUGARCANE APHID (*Sipha flava*) - OKLAHOMA - First of season. District> County= status on roadside johnsongrass May 19: C> Payne and Logan= light. (D. C. Arnold).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (*Hypera postica*) - NEVADA - District> County= larval range (average) per sweep of seed alfalfa: W> Humboldt= no data (no data) at Jungo, May 19; Pershing= 0.24-78.25 (27.4) at Lovelock, May 11-17; and NE> Lander= no data (no data) at Reese River, May 22. (J. Berg et al.). OKLAHOMA - District> County= status on alfalfa week ending May 23: NE> Rogers= larvae slowing regrowth after first cutting in 1 field; WC> Washita= larvae held back regrowth in few fields in eastern area, most now pupated, pupae averaged 40 per 0.09 sq m in field; Custer, NE> Osage, Tulsa, and C> Payne= adults held back regrowth in single fields; and SW> Jackson, Kiowa, Tillman, and Harmon= some larvae still present, infested 0-20% (averaged 9%) of terminals in 31 fields. (D.C. Arnold).

NEBRASKA - District> County= alfalfa weevil larvae and adults per 100 sweeps of alfalfa May 20-21: E> Seward= larvae averaged 43 and 8 in 1 field each; SE> Saline= averaged 4 and 1 in 1 field (Karner); and Otoe= averaged 30 and 1 in 6 fields, tip feeding less than 1% (Stevens). MISSOURI - Area> larvae per alfalfa plant week ending May 24: NC> heavy, 3-20, feeding damage on 76-100% of plants. Alfalfa ready to cut, should be cut and stubble treated. (R.E. Munson). WEST VIRGINIA - District> County= larvae per 3 stems and percent tip infestation on alfalfa [host height] May 5-9: SW> Mason= 43 and 60% [42 cm] (C.H. Cook), NW> Marshall= 83 and 100% [45 cm] (J.D. Hacker), and E> Berkeley= 14 and 83% [39 cm] (C. Stuart).

VARIEGATED CUTWORM (*Peridroma saucia*) - OKLAHOMA - District> County= status on alfalfa week ending May 23: WC> Custer= larvae (1 per 0.09 sq m) helped hold back regrowth in 1 field, NE> Washington= larvae averaged 1 per 10 sweeps in 1 field, and Rogers= very light. (D.C. Arnold).

ALFALFA LOOPER (*Autographa californica*) - NEVADA - First of season. District> County= larvae on seed alfalfa week ending May 23: NE> Lander= early instars at Reese River. (L. Stitt).

APHIDS (*Acyrtosiphon* spp.) - NEVADA - District> County= PEA APHID (*Acyrtosiphon pisum*) and BLUE ALFALFA APHID (*Acyrtosiphon kondoi*) range if given (average) per sweep of seed alfalfa: W> Humboldt= no data (5.33) at Jungo, May 19; Pershing= 0.06-61.25 (12.04) at Lovelock, May 11-17; and NE> Lander= no data (1.57) at Reese River, May 22. (J. Berg et al.). These species and occasional SPOTTED ALFALFA APHID (*Therioaphis maculata*) on hay alfalfa: S> Nye= no data (10) at Pahrump Valley week ending May 23. (T. Smigel, S. Steffen). OKLAHOMA - *Acyrtosiphon pisum* and *Acyrtosiphon kondoi* decreased sharply on alfalfa in most areas due to treatments, cutting, and beneficial insects. District> County= range (average) per alfalfa stem week ending May 23: SW> Jackson, Harmon, Tillman, and Kiowa= 0-5 (2). (D.C. Arnold).

LYGUS BUGS (*Lygus* spp.) - NEVADA - District> County= range if given (average) per sweep of seed alfalfa: W> Humboldt= 1st to 3rd instar larvae no data (0.44), 4th to 5th instar larvae no data (no data), and adults no data (no data) at Jungo, May 19; Pershing= 1st to 3rd instar larvae 0.02-1.18 (0.45), 4th to 5th instar larvae 0-0.22 (0.09), and adults 0-0.08 (0.03) at Lovelock, May 11-17; and NE> Lander= 1st to 3rd instar larvae no data (0.9), 4th to 5th instar larvae no data (no data), and adults no data (no data) at Reese River, May 22. (J. Berg et al.).

SOYBEANS

INSECTS

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - NEBRASKA - District> County= counts on soybeans [first trifoliate leaf] May 22: SE> Johnson= adults up to 5 per plant, severe feeding on seed leaves. (Roselle).

PEANUTS

INSECTS

CORN EARWORM (*Heliothis zea*) - FLORIDA - First larvae of season. District> County= 1st instar larvae on untreated peanuts May 19: NW> Jackson= noted at Greenwood. (W.B. Tappan).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - OKLAHOMA - District> County= adults in pheromone traps week ending May 23: SW> Harmon= 2 in 10 traps and Greer= none. (D.C. Arnold). SOUTH CAROLINA - Adults taken in pheromone traps. (D.R. Johnson).

<u>District> County</u>	<u>Range</u>	<u>Average</u>	<u>Number of traps</u>
April 24 to May 7:			
E> Marlboro	0-115	8.2	110
E> Darlington	0-30	6.3	28
E> Dillon	0-91	18.7	23
C> Sumter	1-36	7.6	10

<u>District> County</u>	<u>Range</u>	<u>Average</u>	<u>Number of traps</u>
C> Calhoun	4-215	54.1	36
WC> Aiken	0-116	38.3	17
S> Barnwell	0-178	93.6	5
S> Allendale	0-1	0.3	3

Weeks of May 12 and May 19:

E> Dillon	0-175	14.24	123
E> Florence	2-25	12.20	10
E> Darlington	0-104	13.14	72
E> Marion	27-106	52.71	7
E> Marlboro	0-115	12.02	301
C> Sumter	0-36	2.66	32
C> Lee	0-175	23.80	104

TOBACCO

INSECTS

TOBACCO HORNWORM (*Manduca sexta*) - FLORIDA - District> County= counts on untreated tobacco May 14: NE> Suwannee= slightly lighter than for same period in 1979 at Live Oak, 7% of plants infested compared with 11% in 1979; population increase expected. (W.B. Tappan).

TOBACCO BUDWORM (*Heliothis virescens*) - FLORIDA - District> County= status on untreated tobacco May 14: NE> Suwannee= infested 33% of plants in plots at Live Oak, 5% heavier than at same time in 1979. (W.B. Tappan).

GREEN PEACH APHID (*Myzus persicae*) - FLORIDA - District> County= counts per untreated tobacco plant May 14: NE> Suwannee= 32 compared with 8 in 1979 at Live Oak. (W.B. Tappan).

MISCELLANEOUS FIELD CROPS

INSECTS

AN APHID (*Brachycolus asparagi*) - WASHINGTON - District> County= status on asparagus May 8: C> Benton at Grandview, Sunnyside, and Prosser, and E> Franklin at Pasco= nymphs and adults heavy on 2-year-old plants in fields with fern; May 22: Benton at Prosser and C> Yakima at other locations= alate viviparous females on ferns. (W. Cone).

DECIDUOUS FRUITS AND NUTS

DISEASES

CEDAR-APPLE RUST (*Gymnosporangium juniperi-virginianae*) - DELAWARE - District> County= galls on junipers week ending May 9: N> New Castle= telial horns released spores. (J.B. Helbig).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - NEW HAMPSHIRE - First adults of season. County= adults May 25: Rockingham= trapped at Londonderry. (A.T. Eaton).

PLUM CURCULIO (Conotrachelus nenuphar) - NEW HAMPSHIRE - First adults of season. County= adults on apple May 22: Rockingham= in orchards at Nottingham. Adults active in apple and sweet cherry trees. (G.T. Fisher).

APPLE APHID (Aphis pomi) - NEW HAMPSHIRE - Area> status on apple week of May 25: S> populations began to increase on marginal tips of trees in commercial orchards, increase expected next 2 periods. (G.T. Fisher).

EUROPEAN APPLE SAWFLY (Hoplocampa testudinea) - NEW HAMPSHIRE - County= status on apple May 13: Hillsboro= first specimens collected in orchards at Hollis, becoming heavier. (A.T. Eaton).

A CHRYSOMELID BEETLE (Paria quadrinotata) - PENNSYLVANIA - District> County= larvae on black walnut May 2: C> Columbia= damaged 50% of 0.5 ha. (D.T. Ware).

PECAN NUT CASEBEARER (Acrobasis nuxvorella) - OKLAHOMA - District> County= status on pecans May 20: SC> Love= eggs found. Egg laying and spray dates expected to be 1 or 2 weeks later than normal in most areas in 1980. (D.C. Arnold).

FOREST AND SHADE TREES

INSECTS

NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) - OKLAHOMA - District> County= status on pines week ending May 23: SE> Latimer, Le Flore, Pushmataha, and McCurtain= first generation larvae (up to three-fourths grown) heavy on young pines on roadsides in many areas; also heavy on young planted pines in some areas of latter county. (D.C. Arnold).

SPRUCE BUDWORM (Choristoneura fumiferana) - NEW HAMPSHIRE - County= status week of May 25: Coos= larvae appeared to be in 3rd instar in most of area. Populations seemed relatively light below Connecticut Lakes, heavier in some areas between First and Second Lakes. Feeding on new terminal growth in most areas not significant to date, most trees examined seemed healthy. (J.F. Burger).

LARCH CASEBEARER (Coleophora laricella) - NEW HAMPSHIRE - County= status week of May 25: Coos= larvae very heavy in large area between Groveton and Milan on State Highway 110, defoliation 90-100% on most trees along highway, most extensive and severe noted in past 5 years; averaged 2-5 per shoot and needles on most trees totally eaten; infestations smaller near Lancaster, individual trees 60-80% defoliated. (J.F. Burger).

EASTERN TENT CATERPILLAR (Malacosoma americanum) - NEW HAMPSHIRE - County= status of infestations in statewide survey May 6-12: Coos and Carroll= as far north as Lancaster and at Conway, respectively; and Rockingham and Strafford= heaviest, many trees totally defoliated, some averaged 10-15 tents per tree, averaged 1-2 tents per tree in rest of State, larvae about half-grown in latter county. (J.F. Burger).

FALL CANKERWORM (Alsophila pometaria) - PENNSYLVANIA - District> County= larvae on oak, maple, and other hardwoods May 16: SE> Bucks, Chester, Montgomery, and C> Dauphin= damaged 50-100% of 250 ha. (D.T. Ware).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

ALKALI BEE (*Nomia melanderi*) - NEVADA - District> County= status week ending May 23: W> Pershing= population 5% pupae at Lovelock. (G. Munk).

FEDERAL AND STATE PROGRAMS

INSECTS

CEREAL LEAF BEETLE (*Oulema melanopus*) - WEST VIRGINIA - District> County= counts per 52 row cm of barley May 9: NW> Ohio= eggs averaged less than 1; adults few. (J.D. Hacker).

GRASSHOPPERS - NEBRASKA - District> County= counts per 0.8 sq m of mainly *Melanoplus differentialis* and *Melanoplus bivittatus* May 21: NW> Scotts Bluff and southern Sioux= up to 20 (averaged 11) in roadside ditches and field margins in 8 sites, hatch not complete. (Hagen). Counts of mixed rangeland grasshopper species, mostly 1st and 2nd instars, May 18-21 (T. Miller):

District> County	Nymphs per 0.8 sq m		Number of sites
	Range	Average	
SW> Lincoln	12-15	12.5	3
SW> Chase	0-21	6	8
SW> Lincoln	12-15	12.5	3
NW> Sheridan	6-24	15	10
NW> Morrill	-	15	1
NW> Garden	18-39	30	4
C> Custer	0-12	6	6
N> Blaine	6-21	9	7
N> Thomas	9-21	15	14
N> Cherry	0-42	12	28
N> Boyd	0-18	3	6
NE> Knox	3-15	9	7

GYPSY MOTH (*Lymantria dispar*) - NEW HAMPSHIRE - Area> larval status on trees week of May 12: Statewide> 1st instars dispersing, began feeding on favored host. (W.J. Morse); status week of May 25: Carroll= larvae at about same levels as in 1979 on Redstone Ledge at Conway. Third instar larvae scattered over 5-sq-km area around Redstone Ledge, remains most concentrated near top of Ledge area. Larvae fed on about 25% of leaf surface on trees as of May 25, no significant disease in larvae yet. (J.F. Burger).

RANGE CATERPILLAR (*Hemileuca oliviae*) - OKLAHOMA - District> County= larvae on rangeland May 14: Panhandle> Cimarron= began to hatch. (D.C. Arnold).

SCREWORM (*Cochliomyia hominivorax*) - No cases reported from continental United States May 11-17. Total of 19 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 148 cases reported in Mexico south of eradication zone. Number of sterile flies released this period totaled 12,007,208, all in Texas. Total of 156,686,226 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	COM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
Mesa 5/19-25		B		48	320	21	1	3									1	7	9
CALIFORNIA																			
Bellota 5/18	12-32	B		13		16	1					2			1			1	
Manteca 5/19	18-37	B		7	4	10						9						3	
FLORIDA																			
Gainesville 5/22-28		B												5					
KENTUCKY																			
Hopkinsville 5/21-27		B		1		0				6									
Lexington 5/21-28		B		6		0				2									
Christian Co. 5/21-27		4P				0				0									
Fayette Co. 5/21-27		2P				0				0									
MISSISSIPPI																			
Stoneville 5/23-29	16-33	B		11		38	13	6				1					1	21	3
TENNESSEE																			
Franklin 5/23-30		B		4		2	3												6
Maury 5/23-30		B		4		11				6									
Franklin 5/23-30		P									0								
Maury 5/23-30		P									0								
VIRGINIA																			
Painter 4/18-24		B		15						31									
WEST VIRGINIA																			
Hurricane 5/27		B		4															
Pipestem 5/24		B		4															
WISCONSIN																			
Mazomanie 5/21-27		B		0		1						3						0	
Racine 5/20-26		B		7		0						0						1	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm		

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Hyattsville, Maryland 20782

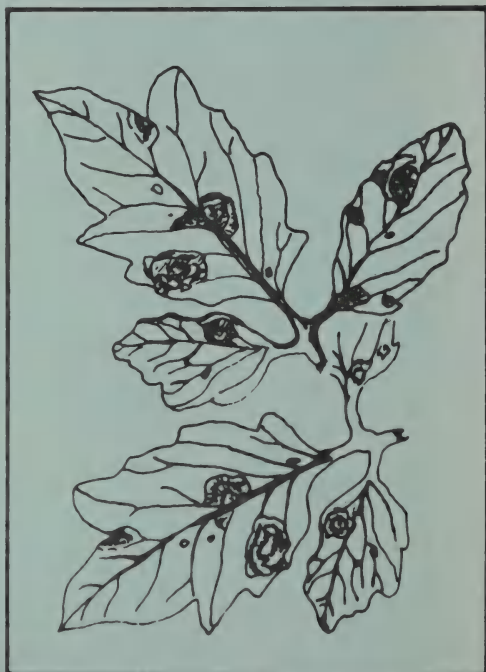
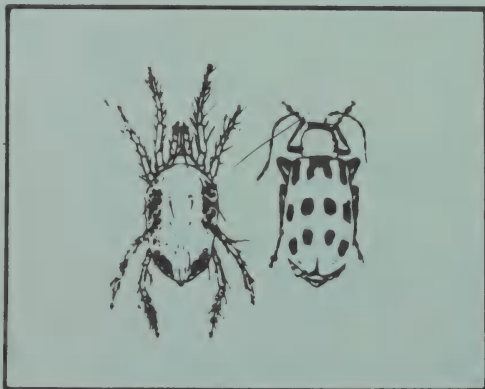
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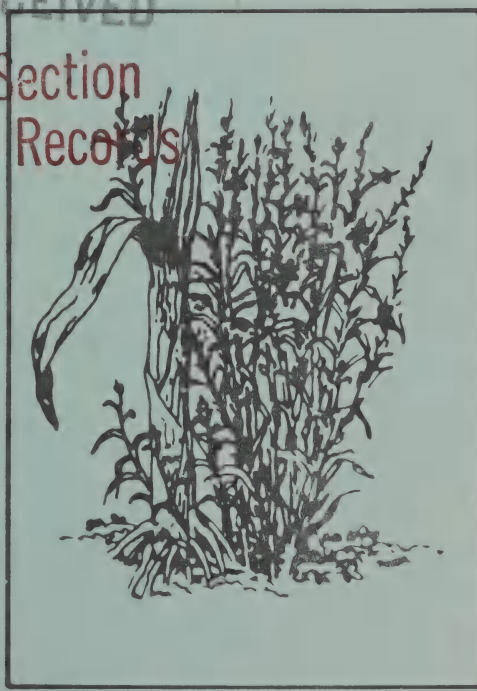
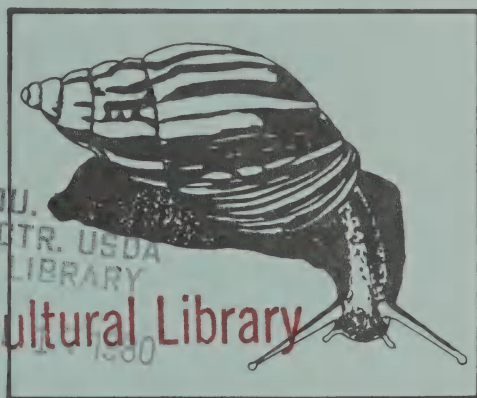
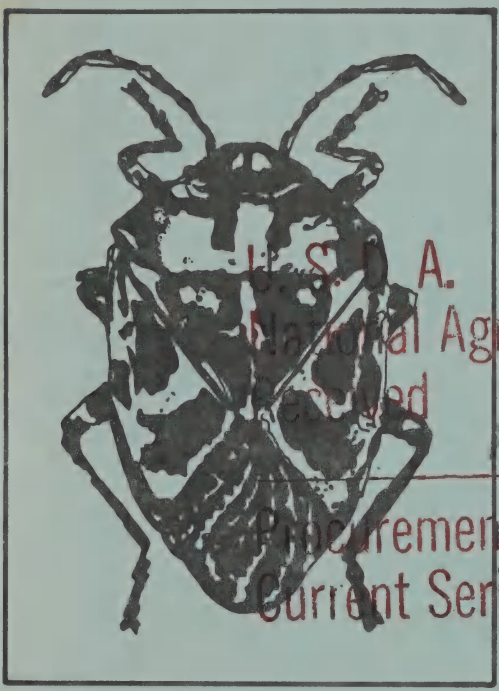
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Cooperative Plant Pest Report

June 13, 1980

Vol. 5

No. 20



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

GRASS THRIPS on young corn in Indiana. (p. 371).

Pycnia for CROWN RUST on oats heavy on buckthorn in area of Minnesota. (p. 371).

SPECKLED LEAF BLOTCH moderate to severe on wheat in west-central Kansas. (p. 372).

CEPHALOSPORIUM STRIPE severe on heading wheat in parts of central and south-central Kansas. (p. 372).

Wheat heads cut by ARMYWORM in some southeastern parts of Arkansas. Treatments applied in parts of Arkansas and Tennessee. (p. 373).

SPRING BLACK STEM AND LEAF SPOT moderate on alfalfa in south-central and central Kansas. (p. 374).

Possible replanting of cotton due to BLACK CUTWORM in southeastern Arkansas. (p. 378).

COLORADO POTATO BEETLE treatment problems on tomatoes in area of Maryland. (p. 379).

Detection

● A CHRYSOMELID BEETLE in Massachusetts is new for the Western Hemisphere. (p. 374).

PINEWOOD NEMATODE is new for Vermont. (p. 383).

For new county records see page 387.

First North American record of PINEWOOD NEMATODE association with cerambycid beetle adults in Florida. Also detected in Maryland. (p. 383).

Some First Occurrences of the Season

EUROPEAN CORN BORER egg mass on corn in Illinois. STALK BORER damage in Kentucky and Ohio. MEXICAN BEAN BEETLE adults on soybeans in Kentucky and Maryland. COTTON FLEAHOPPER on cotton in Arizona. APPLE SCAB, PEACH LEAF CURL, FIRE BLIGHT, and ORIENTAL FRUIT MOTH larvae in Maryland.

Reports in this issue are for the week ending June 6 unless otherwise indicated.

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DISEASES

ANTHRACNOSE LEAF BLIGHT (*Colletotrichum graminicola*) - INDIANA - District> County= prevalence/severity on recently emerged corn [single leaf unless stated otherwise] leaves on cultivars in 1 commercial field each, May 18-24: C> Madison= none seen, Bartholomew= 26%/8% [2 leaves fully opened], EC> Wayne= none seen, SE> Dearborn= none seen, Switzerland= none seen [2 leaves fully opened], Jefferson= none seen [coleoptile above soil], Ripley= 21%/5%, Clark= none seen, Scott= none seen, and SC> Jackson= 5%/5%. (R.A. Schall).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NEBRASKA - District> County= adults in blacklight traps May 29 to June 4: SE> Clay and E> Hamilton= still collected, and Merrick= female with partially developed ovaries collected. (Monk et al.). ILLINOIS - First egg mass of season. District> County= status on corn: ESE> Fayette= egg mass found May 29 (K. Black) and C> Woodford= adults in field margins (J. Maddox).

ALABAMA - Area> European corn borer larvae (average) per 25 corn [host stage] plants in number of fields (f): Central Alabama> 2nd instar no data (10) [tassel] in 1f (C. Knox, N. Wilson), Coastal Plain> 2nd instar no data (2) [tassel] in 1f (T. Lemons), Tennessee River> 1st instar no data (2) [early to late whorl] in 3f (J.E. Gregory), and Gulf Coast> 4th instar 1-10 (4.5) [silking to midwhorl] in 6f. (L.W. Lockhart). KENTUCKY - First egg mass of season. District> County= status on corn May 26: Midwestern> Logan= found. (H.G. Raney).

OHIO - District> County= European corn borer status on field corn stubble May 19: E> Muskingum= larvae and pupae present, stalk dissection 0.1 larva and 0.05 pupa per stalk, C> Licking= larvae 0.05 per stalk (R.W. Wadleigh); Fairfield, SE> Meigs, Washington, NC> Erie, Lorain, and SW> Butler= no adults in blacklight traps. Status May 27: SC> Pike= adults swept (K. Essman); NE> Wayne= first adults at Wooster should emerge about June 1 or when about 225 degree days accumulate (W. Rubink); and WC> Champaign and Shelby= 0.15 and 0.1, respectively, pupae per stalk of field corn stubble (R. W. Wadleigh).

GEORGIA - Area> European corn borer larvae (average) per 25 corn [early whorl] plants in number of fields (f): SE> 3rd instar 1 (no data) in 1f (W.F. Wood), and N> 1st to 2nd instars 2-4 (3.2) in 4f (E.W. Elder). NORTH CAROLINA - District> County= small larvae in corn whorls week ending May 30: Southern Coastal> Sampson, Bladen, and Robeson, northward to Northern Coastal> Washington= 2nd and 3rd instars on about 1% of plants far below threshold levels of 40% of plants with more than 1 larva. Early detection of young borers before stalk boring increased efficacy of treatments. (T. Hunt).

VIRGINIA - District> County= European corn borer egg masses on 300 corn plants May 31: C> Bedford= 32 on 31%. (J.L. Despins). MARYLAND - Pupation about 75%, corn not tall enough to attract females for egg laying, week ending May 23. Peak egg laying expected during last week in May. (R. Hochmuth).

BLACK CUTWORM (*Agrotis ipsilon*) - OHIO - District> County= status on corn May 22: NE> Wayne= first economic infestation, about equal numbers of 3rd and 4th instar larvae in no-till field with 5-8% cut plants, treatment applied; May 28: NC> Ashland= 3rd to 6th instars in 0.4 ha of 2-ha field and NE> Wayne= 140 degree days week ending May 23 and 192 degree days week ending May 30 (base 10.42°C) accumulated since March 31, date of first cutworm capture at Wooster. Total accumulation January 1 to May 21 is 146, to May 29 is 198. (W. Rubink, S. Clement). MARYLAND - Isolated, heavy black cutworm populations continued on lower Eastern Shore. District> County= 3rd instar larvae or younger per 0.3 row m of corn week ending May 23: Eastern Shore> Worcester= heaviest, 2-3. (R. Hochmuth). NEW YORK - District> County= status week ending May 23: Statewide> adults continued to fly, average accumulated per station about 30 per trap, W> Orleans= 56 males maximum accumulated (H. Willson) and E> Schoharie= larval damage 25-33% in sweet corn field (J. Cuniglio).

FALL ARMYWORM (*Spodoptera frugiperda*) - ALABAMA - Area> 2nd to 3rd instar larvae (average) per 25 corn [stirking to midwhorl] plants: Gulf Coast> 1-7 (4) in 2 fields. (L.W. Lockhart). GEORGIA - Area> larvae (average) per 25 corn [host stage] plants: SW> 3rd instar 2-5 (3.5) [2 leaves to early whorl] in 2 fields (W.T. Clover), and SE> 2nd to 3rd instar 3 (no data) [early whorl] in 1 field (T.H. Murphy).

NORTH CAROLINA - Area> County= fall armyworm status on corn week ending May 30: Coastal Plain to as far north as Northern Coastal district> Tyrrell= 4th and 5th instar larvae noted, infestations spotty and loss not economic to date (D. Berle, T. Ballis); Southern Coastal Plain to Northern Coastal> Tyrrell and Washington= infestations ranged from 4% down to less than 1% in latter area. (T. Hunt).

ARMYWORM (*Pseudaletia unipuncta*) - VIRGINIA - District> County= larval infestation per 50 plants of no-till corn [15 cm tall] May 30: W> Rockbridge= 32%. (S.P. Briggs, L.M. Los).

STALK BORER (*Papaipema nebris*) - KENTUCKY - First of season. District> County= status on corn May 28: Purchase> Calloway= damage very noticeable throughout 1 field. (R.A. Scheibner). OHIO - District> County= larvae about 8 mm long on corn [2 leaf] May 28: NE> Wayne= first damage of season noted. (D. McCartney).

CORN FLEA BEETLE (*Chaetocnema pulicaria*) - MARYLAND - District> County= status on sweet corn week ending May 23: NC> Kent, Eastern Shore> Caroline, and Dorchester= heavy populations continued treatment, continuing in fields with economic levels. (R. Hochmuth).

SORGHUM MIDGE (*Contarinia sorghicola*) - TEXAS - District> County= counts per 15 sorghum plants May 23: Lower Valley> Hidalgo= 3-5. (J. Cocke, J.W. Norman). GREENBUG (*Schizaphis graminum*) - TEXAS - Generally light from Lower Gulf Coast through north-central area. (J.A. Jackman). Status on sorghum May 23 to June 3 (C.L. Cole et al.):

District> County	Status
Coastal Bend> San Patricio	light
SC area>	light
Blacklands> Ellis & Navarro	light
Blacklands> Hill & Johnson	increased
NC area>	light

NEBRASKA - Hard driving rainstorms sharply reduced greenbug infestations on sorghum in parts of central, eastern, and southeastern areas. District> County= status on sorghum: E> York= essentially gone from field averaging 12 per plant past period. (Monke).

CORN LEAF APHID (*Rhopalosiphum maidis*) - TEXAS - Generally light from Lower Gulf Coast through north-central area. (J.A. Jackman). Status on sorghum May 19-30 (W.E. Buxkemper et al.):

District> County	Status
Blacklands> Williamson & Milam	10-100 per plants
Blacklands> Ellis & Navarro	common
Blacklands> Hill & Johnson	present in whorls
NC area>	present in many fields

YELLOW SUGARCANE APHID (*Sipha flava*) - TEXAS - District> County= counts on sorghum May 29-30: Blacklands> Ellis and Navarro= 1 per plant, and Hill and Johnson= light. (W.E. Buxkemper, G. Cronholm).

GREEN STINK BUG (*Acrosternum hilare*) - ALABAMA - Area> adult counts (average) per 25 corn [early tassel] plants: Wiregrass> 0 (1) in 1 field. (W.N. Stephenson).

GRASS THRIPS (*Anaphothrips obscurus*) - INDIANA - Area> adults on corn [2-leaf] May 22: SE> noted in several counties, numerous enough in some instances to produce visible feeding lesions. Unusual to infest plants so young in State. (R. Schall).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia graminis* f.sp. *tritici*) spread throughout grain areas in northern ALABAMA, GEORGIA, and the CAROLINAS, May 15-28. Trace in northern OKLAHOMA and southern KANSAS nurseries and in few Oklahoma commercial fields. (A.P. Roelfs, D. Long). KANSAS - Became evident in parts of southeastern and south-central areas. Prevalences late this year, little damage expected unless environmental conditions change and favor development. Status on wheat week ending May 30 (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage
SE> Crawford	trace	trace	flowering
SE> Cherokee	trace	trace to 5	flowering
SE> Labette	trace	trace	flowering
SE> Chautauqua	trace to 30	trace	flowering
SE> Cowley	trace to 50	trace to 5	flowering
SC> Sumner	trace	trace	flowering
SC> Harper	trace	trace	flowering
SC> Harvey	trace	trace	heading
SC> Sedgwick	trace	trace	heading

Conditions for CROWN RUST (*Puccinia coronata*) teliospore germination created by rain May 19-20, resulted in heavy pycnia infection on buckthorn leaves at St. Paul, MINNESOTA, nursery. (A.P. Roelfs, D. Long).

RYE LEAF RUST (*Puccinia recondita* f.sp. *secalis*) - DELAWARE - District> County= prevalence/severity on rye [early milk] May 28: S> Sussex= about 75%/25%. (J.B. Helbig).

SPECKLED LEAF BLOTCH (*Septoria tritici*) light to moderate on commercial wheat throughout northern OKLAHOMA, May 15-28 (A.P. Roelfs, D. Long.). KANSAS - Area> status on wheat week ending May 30: Statewide> continued 1 of 2 most widespread foliar diseases, prevalences vary greatly depending on recent weather conditions and previous cropping practices, appeared moderate to severe in parts of west-central area, mainly Ness County, where prevalence up to 90% and severity on 15% of flag leaf. (G.A. Salsbury et al.).

Imperfect stage of SEPTORIA GLUME BLOTCH (*Leptosphaeria* (*Septoria*) *nodorum*) was a problem on early planted wheat in NORTH CAROLINA May 15-28. (A.P. Roelfs, D. Long).

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) severe in NORTH CAROLINA May 15-28 (Newton) and trace on wheat throughout northern OKLAHOMA. (A.P. Roelfs, D. Long).

Status on wheat week ending May 30 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
EC> Geary	100	moderate	heading
EC> Douglas	100	severe	flowering
C> Marion	trace	light	heading
SC> Harvey	80	moderate	heading

PENNSYLVANIA - District> County= wheat powdery mildew prevalence on wheat week ending May 30: SC> Cumberland, C> Dauphin, and Northumberland= heavy on 'Hart', widespread on most varieties in area. (D. Bingaman). DELAWARE - District> County= prevalence on wheat [late milk] May 30: C> Kent= about 80%. (J.B. Helbig).

TAN SPOT (*Pyrenophora trichostoma*) light to moderate on commercial wheat throughout northern OKLAHOMA and southern KANSAS, May 15-28. (A.P. Roelfs, D. Long). Oklahoma - District> County= status on wheat week ending May 23: NC> Garfield= particularly severe, and Grant= particularly severe on 'Tam 101' with symptoms on flag leaf. (K.E. Conway). Kansas - Area> status on wheat week ending May 30: Statewide> continued 1 of 2 most widespread foliar diseases, prevalences vary greatly depending on recent weather conditions and previous cropping practices. (G.A. Salsbury et al.).

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - OKLAHOMA - Area> status on wheat May 15-28: N> trace areawide. (A.P. Roelfs, D. Long). KANSAS - Remains severe in parts of central and south-central areas. Status on wheat [heading] week ending May 30 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>
SC> Harvey	trace to 10	light
SC> Reno	trace to 75	light to severe
C> Dickinson	trace	light
C> McPherson	trace to 100	light to severe
C> Rice	trace to 25	moderate
C> Ellsworth	trace to 10	light
C> Lincoln	trace to 20	light

LOOSE SMUT (*Ustilago nuda*) - OKLAHOMA - District> County= prevalence/severity on barley week ending May 23: NC> Kay= 100%/2%. (K.E. Conway). KANSAS - District> County= prevalence on wheat week ending May 30: SC> Reno= trace in 1 field. (T. Sim, IV).

WHEAT STREAK MOSAIC VIRUS - OKLAHOMA - Area> damage to wheat May 15-28: N> moderate to severe in local sites. (A.P. Roelfs, D. Long). KANSAS - Appeared in scattered fields in central, west-central, and northwestern areas. Status on wheat week ending May 30 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
NW> Decatur	75	moderate	-
C> Saline	trace	severe	postbloom
C> Lincoln	trace	moderate	heading

BARLEY YELLOW DWARF VIRUS - OKLAHOMA - Area> prevalence May 15-28: N> trace on wheat. (A.P. Roelfs, D. Long). KANSAS - Continued evident in parts of central and eastern areas, appeared in northwestern area. Status on wheat week ending May 30 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
SC> Harvey	trace	light	heading
SC> Reno	trace	light	heading
C> Rice	trace	light	heading
EC> Miami	trace	light	flowering
NW> Decatur	trace	light	-

SOIL-BORNE WHEAT MOSAIC VIRUS - Damage moderate to severe to wheat in local areas of northern OKLAHOMA and southern KANSAS. (A.P. Roelfs, D. Long).

INSECTS

ARMYWORM (*Pseudaletia unipuncta*) - ARKANSAS - Area> status on wheat week ending May 23: SE> problems continued, particularly in Desha and Chicot Counties where wheat heads cut in some places; N> larvae 5-6 per 0.09 sq m not uncommon, especially in NE district> Poinsett and Clay Counties; NE> about half of fields treated. (M. Wall et al). TENNESSEE - District> County= larvae per 0.09 sq m of wheat week ending May 23: Delta> Lake= about 3+, and Obion and Dyer= not so heavy. Many growers treated. (C.R. Patrick, M. Cooper). ILLINOIS - Larvae generally light on wheat. District> County= larvae (length) on wheat: SW> Perry= 1 (3 cm) per 2 row m, Monroe= 2 (3 cm) per 2 row m, and SE> Wayne= light (1-1.9 cm). (C. Bremer).

MARYLAND - Armyworm adults in blacklight traps during April averaged 49, well below past 5 year average of 132. District> County= status on small grains week ending May 23: Eastern Shore area> widespread outbreaks not expected except in Dorchester and Caroline Counties, where spotty economic infestations seem to appear yearly; Dorchester and Caroline= first larvae (less than 1 cm long) noted, populations below economic threshold levels. (R. Hochmuth). NEW YORK - District> County= adults in traps week of May 28: Long Island> Queens= continued to increase, 346 taken on Long Island (M. Semel) and S> Tompkins= 55. (J. Abrams).

WHEAT HEAD ARMYWORM (*Faronta diffusa*) - NEW YORK - District> County= adults in traps May 17-23: Long Island> Queens= first catches on Long Island. (M. Semel).

SPOTTED CUTWORM (*Amathes c-nigrum*) - NEW YORK - District> County= adults in traps May 17-27: Long Island> Queens, W> Ontario, and S> Tompkins= first catches. (M. Semel et al.).

RICE WATER WEEVIL (*Lissorhoptrus oryzophilus*) - ARKANSAS - Area> adults on rice: NE> unusually heavy, above treatment level in many fields as fields flooded. (J. Kimbrough).

GREENBUG (*Schizaphis graminum*) - TEXAS - District> County= counts per 0.3 row m of small grains May 23-30: Trans-Pecos> El Paso= very light, 0-5. (B. Lee).

TURF, PASTURES, RANGELAND

INSECTS

A CHRYSOMELID BEETLE (*Chaetocnema concinna* (Marsham)) - MASSACHUSETTS - New Western Hemisphere record. County= collection data: Plymouth= 1 female from *Sorghum sudanense* (sudangrass) forage on farm at Hingham, June 26, 1979, by M. Andelman, determined by E.R. Hoebeke, confirmed by S.L. Shute. Known throughout Europe and Asia (E.R. Hoebeke) and from Algeria and Morocco (R. White). Reported on *Beta vulgaris* (beets and mangels), *Brassica* spp. (kale and rutabaga), *Chenopodium album* (common lambsquarters), *Fragaria* sp. (strawberry), *Genista tinctoria* (dyers greenweed), *Humulus* sp. (hops), *Polygonum aviculare* (prostrate knotweed), *Polygonum convolvulus* (wild buckwheat), *Rheum* sp. (rhubarb), *Rumex* sp. (sorrel or dock), *Triticum* (wheat), buckwheat, and hemp. Severe damage to young plants reported. (E.R. Hoebeke et al.).

FORAGE LEGUMES

DISEASES

SPRING BLACK STEM AND LEAF SPOT (*Phoma medicaginis*) - KANSAS - Status on alfalfa week ending May 30 (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host height (cm)
SC> Reno	100	moderate	71
C> Rice	100	moderate	66
C> Lincoln	100	moderate	71

ALFALFA DOWNY MILDEW (*Peronospora trifoliorum*) - KANSAS - District> County= prevalence on alfalfa [71 cm tall] week ending May 30: SC> Reno= 10% in 1 field. (T. Sim, IV).

YELLOW LEAF BLOTCH (*Leptotrochila medicaginis*) - KANSAS - District> County= prevalence on alfalfa [36 cm] week ending May 30: C> Marion= trace in 1 field. (T. Sim, IV).

INSECTS

ALFALFA WEEVIL (*Hypera postica*) - UTAH - District> County= larval and adult status on alfalfa May 22: N> Cache= mostly 1st and 2nd instars 0.3-4 per stem and mostly 2nd and 3rd instars 0.1-0.75 (averaged 0.3) per sweep and adults 0.5-5 (averaged 1) per sweep in Logan and Hyde Park areas; punctured 0-60% (averaged 15%) of stems, of these, 10% contained eggs, 6-23 (averaged 18) per puncture. (G.F. Knowlton). TEXAS - District> County= status on alfalfa May 23-30: Trans-Pecos> El Paso= larvae 0-1 per sweep. (B.A. Lee). NEBRASKA - District> County= larvae (average) and adults (average) per 100 sweeps of alfalfa: C> Dawson= 37-2,730 (753) and 2-35 (12) in 8 fields. (Manglitz).

ILLINOIS - Harvest in most areas delayed by rainy weather. Second growth progressing well in most areas checked, although alfalfa weevil adults and all larval instars visible in fields, and some feeding damage evident. District> County= status: SW> St. Clair= pinhole damage 10% on new growth, W> Adams and Hancock= tip feeding 5%, and NW> Henry= terminal tip feeding 10%. (A. Agnello). OHIO - District> County= egg masses per stem, larvae per stem, and adults per sweep on alfalfa May 19-20: SE> Muskingum= 0.1, 3.8, and 0.1 and Washington= 0.2, 3.8, and 0.2, all stems moderately damaged in both counties. (R.W. Wadleigh).

WEST VIRGINIA - New county records. District> County= alfalfa weevil collection data from *Medicago sativa* (alfalfa): SW> Mercer= visible damage on 10 tips sampled near Athens, April 23, 1980, and E> Summers= larvae and 1 adult swept near Ellison, April 23. Both collected by J.D. Hacker, and determined by J.D. Hacker and G.L. Clement. (J.D. Hacker). Larvae per 30 stems and percent tip infestation of alfalfa [host height (or stage)] May 14-21: SW> Mason= 20 and 40% [60 cm] (C.H. Cook); NW> Marshall= 121 and 100% [52 cm (50% bud)]; Ohio= 109 and 100% [55.8 cm (60% bud)] (J.D. Hacker); SW> Mercer= 78 and 80% [55.8 cm]; E> Summers= 25 and 20% [74.9 cm]; on alfalfa and orchardgrass mix: E> Monroe= 30 and 80% [60.6 cm] (50% alfalfa); and Greenbrier= 41 and 40% [60 cm] (40% alfalfa) (G.L. Clement). On alfalfa May 28: E> Randolph= 12 and 60% [6 cm (50% bud)]. (J.D. Hacker). Currently: E> Summers= 8 and 10% [86 cm (50% bloom)]. (Clement).

NEW YORK - Area> alfalfa weevil status on alfalfa May 29: Statewide, except coldest area> development passed peak egg stage, reached peak 1st or 2nd instar (3rd to 4th in warmer areas). (Helgesen).

EGYPTIAN ALFALFA WEEVIL (*Hypera brunneipennis*) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: SW> Yuma= larvae 100 and SE> Graham= nymphs 50 and adults 5. (L. Eiland et al.).

PEA APHID (*Acyrtosiphon pisum*) ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week of May 22: SW> Yuma= 800-1,750, SE> Graham= 132-800, Cochise= 120, and C> Pinal= 132 (D. Cawood et al.); week ending May 29: SW> Yuma= 100-400 and C> Pinal= 100 (A. Vaughan et al.); currently: SW> Yuma= 150-200, C> Pinal= 60, and SE> Graham= 335 (L. Eiland et al.).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: SW> Yuma= 100-150. (L. Eiland et al.).

GREEN PEACH APHID (Myzus persicae) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: SE> Cochise= 400. (L. Eiland et al.).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa week ending May 29: SE> Graham= 20-30, C> Pinal= 630, and SW> Yuma= 15-30. (A. Vaughan et al.); currently: SE> Graham= 3-1,200, C> Pinal= 30-100, SW> Maricopa= 32, and Yuma= 10-15. (L. Eiland et al.).

POTATO LEAFHOPPER (Empoasca fabae) - ILLINOIS - Increased slightly. District> County= counts per sweep of alfalfa: E> Champaign= 0.8-2.1, W> Adams= up to 0.4, and Hancock and NW> Henry= lighter. (A. Agnello).

MEADOW SPITTLEBUG (Philaenus spumarius) - WEST VIRGINIA - District> County= nymphs per 30 stems of alfalfa [79 cm tall]: SW> Mercer= 25, and E> Monroe= 35. (G.L. Clement). OHIO - District> County= nymphs per stem May 19: SE> Muskingum= 0.9 on 50% of alfalfa stems, and Guernsey= 1.1 on 50% of red clover stems. (R. W. Wadleigh).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week of May 22: SE> Graham= no data and 70-120, Cochise= 20 and 30, C> Pinal= 3-19 and 7-60, Maricopa= 80 and 18-160, and SW> Yuma= 3-30 and 60-100. (D. Cawood et al.); week ending May 29: SE> Graham= 20 and 40-70, C> Pinal= 20-410 combined, and SW> Yuma= 20-200 combined (A. Vaughan et al.). Currently: SE> Cochise= 30 and 60, C> Maricopa= no data and 30-84, Pinal= 480 and 100-160, and SW> Yuma= 40 and 20-100 (L. Eiland et al.). UTAH - District> County= 1st to 3rd instar with few 4th and 5th instar nymphs (average) and adults (average) per sweep of alfalfa May 22: N> Cache= 0.5-2 (1.5) and 0.01-0.5 (0.15). (G.F. Knowlton).

SOYBEANS

DISEASES

RHIZOCTONIA ROOT ROT (Rhizoctonia solani) - KANSAS - District> County= prevalence on soybeans [seedling] week ending May 30: EC> Miami= trace in 1 field. (T. Sim, IV).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - KENTUCKY - First adults of season. District> County= adult status May 25: Bluegrass> Fayette= noted. (J.D. Culin). OHIO - District> County= adults per plant on soybeans [fully developed leaf at unifoliate node] May 27: WC> Champaign= 0.02, feeding and mating, 12% of plants had some feeding damage, adults throughout field, and Clark, Logan, and Shelby= none in 3 fields. (R.W. Wadleigh). MARYLAND - Overwintered adults in 1980 heaviest of past 5 years. Overwintered adults emerged. Area> egg masses week ending May 23: Eastern Shore> noted. (R. Hochmuth).

BEAN LEAF BEETLE (Cerotoma trifurcata) - ILLINOIS - Adults not heavy in most areas. District> County= adults per m and percent defoliation in soybeans: SW> Perry= 1.4 and 10%, Randolph= 0.4 and 15%, Monroe= 0.6 and 5%, and St. Clair= 0.2 and 5%. (A. Agnello). OHIO - District> County= adults per soybean [fully developed leaf at the unifoliate node] plant May 27: WC> Champaign= 0.02 and Logan= 0.04, fed on 8% of plants in 1 field. (R.W. Wadleigh).

SOYBEAN THRIPS (Sericothrips variabilis) - NORTH CAROLINA - Area> status on soybeans week ending May 30: Southern and Central Coastal Plain counties> continued to attract considerable attention, damage appears greatest in sandy and sandy loam fields with wet spots. (C. Tyson).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - Trapped adults heavy on cotton in north-central area May 23. (H.A. Turney). Continued to be heavy from Lower Rio Grande Valley to north-central area and west to San Angelo May 23 to June 3. (J.A. Jackman).

District> County	Counts
May 22-23 (J.C. Cocke et al.):	
Lower Valley> Cameron	0-8 per 100 plants
Lower Valley> Cameron	punctured squares 0-58 per 100 plants
Lower Valley> Hidalgo	0-2 per 100 plants
Lower Valley> Hidalgo	punctured squares 0-16 per 100 plants
Lower Valley> Willacy	0-4 per 100 plants
Lower Valley> Willacy	punctured squares 0-16 per 100 plants
Upper Coast> Wharton & Matagorda	3 per trap per week
Blacklands> Hill & Johnson	5-65 per trap per week
Edwards Plateau> Tom Green	2-10 per trap per week
May 23 to June 3 (J. Cocke et al.):	
Lower Valley> Cameron	0-10 per 100 plants
Lower Valley> Cameron	0-78 per 100 plants
Lower Valley> Hidalgo	0-2 per 100 plants
Lower Valley> Hidalgo	0-42 per 100 plants
Lower Valley> Willacy	0-2 per 100 plants
Lower Valley> Willacy	0-28 per 100 plants
Coastal Bend> Kleberg	0-3 per 100 plants
Coastal Bend> Kleberg	punctured squares 0-17%
Coastal Bend> Nueces & South Texas> Jim Wells	0-1 per 100 plants
Coastal Bend> Nueces & South Texas> Jim Wells	punctured squares 0-10%
Coastal Bend> San Patricio & Refugio	0-1 per 100 plants
Coastal Bend> San Patricio & Refugio	punctured squares 0-25%
Coastal Bend> Kleberg	punctured squares 2-42%
Coastal Bend> Nueces & South Texas> Jim Wells	punctured squares 1-50%
Coastal Bend> San Patricio & South Texas> Jim Wells	punctured squares 0-30%
East Texas, South> Brazos	3 per trap per week

District> County	Counts
Blacklands> Williamson	5 per trap per week
Blacklands> Milam	9 per trap per week
Blacklands> Ellis & Navarro	22.4-29 per trap per week
Blacklands> Ellis & Navarro	4.8-9.6 per trap per week
Blacklands> Hill & Johnson	5-65 per trap per week
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	6.8-23.5 per trap per week

ARKANSAS - District> County= overwintered boll weevil adults in number of pheromone traps: SE> Drew= 49 in 11, Chicot= 161 in 20, and Ashley= 141 in 3; all very much above normal May 16-21. (M. Wall). May 26 to June 2: SE> Ashley= 38 in 12, Drew= 125 in 20, and Chicot= 50 in 18 June 2. (M.A. Mayse). TENNESSEE - District> County= counts in pheromone traps week ending May 23: Central Basin> Lincoln= 2. (J. Cagle).

BOLLWORMS (*Heliothis* spp.) - TEXAS - BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) still light on cotton in all areas by May 30. (J.A. Jackman).

District> County	Counts per 100 plants		
	Eggs	Larvae	Damaged squares
May 23 (J. Cocke, J.W. Norman):			
Lower Valley> Cameron	0-14	0-10	0-10
Lower Valley> Hidalgo	0-15	0-6	0-18
Lower Valley> Willacy	0-8	0-3	0-4
May 23-30 (J. Cocke et al.):			
Lower Valley> Cameron	0-4	0-4	0-4
Lower Valley> Hidalgo	0-1	0-2	0-7
Lower Valley> Willacy	0	0-2	0-2
Coastal Bend> Kleberg	0-2	0-5	3-10
Coastal Bend> Nueces & South Texas> Jim Wells	0-3	0-8	0-12
Coastal Bend> Nueces & South Texas> Jim Wells	0-2	0-10	0-10
Coastal Bend> San Patricio & South Texas> Refugio	0-3	0-3	0-5
Coastal Bend> San Patricio & South Texas> Refugio	0-2	0-4	0-5
Coastal Bend> Kleberg	0-4	0-4	0-6

BLACK CUTWORM (*Agrotis ipsilon*) - ARKANSAS - Larvae unusually heavy on cotton in southeastern area. District> County= larvae per 3 row m of cotton week ending May 23: SE> Desha= averaged up to 1, about 25% of hectares treated. Some hectares may require replanting due to damage. (M. Wall, C. Denver).

COTTON FLEAHOPPER (*Pseudatomoscelis seriatus*) - ARIZONA - First of season. District> County= counts per 25 cotton plants week ending May 29: C> Pinal= adults 4 and Maricopa= nymphs 5 and adults 6. (P. Gomez et al.). TEXAS - District> County= counts per 100 cotton plants May 23: Lower Valley> Cameron= 0-24, Hidalgo= 0-22, and Willacy= 0-50. (J. Cocke, J.W. Norman). Increased along Gulf Coast and Blacklands. (J.A. Jackman). Status on cotton May 23 to June 3 (J. Cocke et al.):

District> County	Status
Lower Valley> Cameron	0-26 per 100 plants
Lower Valley> Hidalgo	0-18 per 100 plants
Lower Valley> Willacy	0-8 per 100 plants
Upper Coast> Fort Bend	light in most fields
Coastal Bend> Kleberg	10-60 per 100 terminals
Coastal Bend> Nueces & South Texas> Jim Wells	0-10 per 100 terminals
Coastal Bend> San Patricio & Refugio	0-25 per 100 terminals
SC> Guadalupe	25%
Blacklands> Williamson & Milam	0-35%
Blacklands> Navarro	2-8 per 100 terminals
Blacklands> Hill & Johnson	few

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - OHIO - District> County= overwintered adults May 16: NE> Wayne= heavy, feeding on processing tomato transplants where potatoes planted in 1979, overwintering population in soil, adults 1 per 0.09 sq m earlier, and NC> Huron= fed on volunteer potatoes, migration to new sites expected soon. (G.P. Walker). Status May 24-28: NW> Wood= adult on volunteer potato plant growing in 1979's patch (R.C. Graves); NE> Wayne= egg laying continued in experimental tomato plots; NC> Huron= egg laying continued on volunteer potato. No larvae although several hundred egg masses found. Small percent of egg masses in third county preyed upon, some due to cannibalism by adults. *Coelophora pupillata* (tenspotted lady beetle) heavy, maybe responsible for some egg predation. One egg-feeding *Lebia* sp. (a carabid beetle) found. (G.P. Walker).

MARYLAND - Area> Colorado potato beetle status on tomatoes week ending May 23: Lower Eastern Shore> damage widespread. Due to ineffective recommended controls, problems arising. (R. Hochmuth).

BEANS AND PEAS

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - KENTUCKY - First adults of season. District> County= status May 25: Bluegrass> Fayette= noticed. (J.D. Culin).

DISEASES

APPLE SCAB (*Venturia inaequalis*) - MARYLAND - First of season. District> County= status on apple leaves week ending May 23: NC> Washington= noted. (R. Hochmuth).

PEACH LEAF CURL (*Taphrina deformans*) - MARYLAND - First of season. District> County= status week ending May 23: NC> Montgomery= noted. (R. Hochmuth).

FIRE BLIGHT (*Erwinia amylovora*) - MARYLAND - First of season. District> County= status on apple week ending May 23: NC> Washington= noted. (R. Hochmuth).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - OHIO - District> County= adults in 1 blacklight and 1 pheromone trap, respectively, May 19-21: NE> Wayne= 7 and 1. (R.W. Wadleigh). NEW YORK - District> County= adult status May 15-23: Hudson Valley> 6 trapped (R. Weires) and W> Wayne= began to emerge as of May 23 (Richardson).

ORIENTAL FRUIT MOTH (*Grapholitha molesta*) - MARYLAND - First of season. Area> larvae on peach trees week ending May 23: W> caused flagging of terminal growth. (R. Hochmuth). NEW YORK - Area> adults in traps May 15-22: Hudson Valley, dropped to 1. (R. Weires).

LESSER APPLEWORM (*Grapholitha prunivora*) - NEW YORK - District> County= adult status May 15-22: Hudson Valley area> 19 trapped (R. Weires) and W> Wayne= began to emerge May 19. (Richardson).

LESSER PEACHTREE BORER (*Synanthedon pictipes*) - SOUTH CAROLINA - District> County= range (average) per pheromone trap week ending May 23: C> Lexington, WC> Edgefield, and Saluda= 0-125 (16). Soybeans interplanted in 1979, no fall trunk treatment. (C.S. Gorsuch). NEW YORK - District> County= adults in traps: W> Yates= first taken at Bellona May 25 (Robbins) and Wayne= emergence began May 22 (Richardson).

PEACHTREE BORER (*Synanthedon exitiosa*) - SOUTH CAROLINA - District> County= status in pheromone traps week ending May 23: C> Lexington, WC> Edgefield, and Saluda= total of 14 adults caught; C> Sumter and WC> Aiken= larvae heavy, 8-20 per peach tree on 1-year-old trees. Soybeans interplanted in 1979 and no controls applied to trunks in fall. (C.S. Gorsuch).

REDBANDED LEAFROLLER (*Argyrotaenia velutinana*) - OHIO - Overwintering generation completed by May 27. District> County= adults in pheromone traps May 13-19: NE> Wayne= 23 and NC> Ashland= 17 (R.W. Wadleigh); May 20-27: NE> Wayne and NC> Ashland= none. (F. Hall). MARYLAND - First of season. District> County= status on peach and apple week ending May 23: NC> Washington= noted. (R. Hochmuth).

A GRACILLARIID MOTH (*Lithocolletis blancardella*) - NEW YORK - District> County= status on fruit week of May 28: W> Niagara= began entering tissue feeding stage in western area (J. Leeper); and Wayne= few larvae appeared to be in 2nd instar (Way), adult catches decreased (Richardson).

EASTERN TENT CATERPILLAR (Malacosoma americanum) - KENTUCKY - First adult of season. District> County= adult status May 28: Bluegrass> Fayette= collected. (P.E. Sloderbeck).

PLUM CURCULIO (Conotrachelus nenuphar) - NEW YORK District> County= status on cherries and apples May 24: W> Ontario= first damage in western area. (J. Leeper).

ROSY APPLE APHID (Dysaphis plantaginea) - MARYLAND - First of season. Caused leaf curl on apple week ending May 23, damage so far not so bad as in recent years. (R. Hochmuth).

GREEN PEACH APHID (Myzus persicae) - MARYLAND - Populations heavy on peach week ending May 23, controls applied. Worst pest on peach at present in western counties. (R. Hochmuth).

PEAR PSYLLA (Psylla pyricola) - NEW YORK - Area> status on pear week of May 28: Lake Ontario region> heavy in blocks not treated (R. Pease), most in commercial block not treated as white bud in 5th instar, nymph observed molting into adult in western area. (J. Leeper).

SAN JOSE SCALE (Quadraspidiotus perniciosus) - MARYLAND - Area> male status on fruit trees week ending May 23: W> first activity for area. (R. Hochmuth). NEW YORK - District> County= males per trap May 15-22: SE> Ulster= heavy, about 5,000 near New Paltz, Hudson Valley (R. Weires) and W> Wayne= 180+ in 1 trap on weekend (Richardson).

EUROPEAN RED MITE (Panonychus ulmi) - OHIO - District> County= eggs and motiles per apple leaf week ending May 30: C> Fairfield= 0.39 and 0.25 in research orchard. (R.W. Wadleigh). Percent overwintered eggs hatched: NE> Wayne= 84 in insectary. (F. Hall).

PEAR RUST MITE (Epitrimerus pyri) - NEW YORK - Area> status on fruit week of May 28: Lake Ontario region> heavy in blocks not treated. (R. Pease).

PECAN NUT CASEBEARER (Acrobasis nuxvorella) - TEXAS - Populations light in most areas, eggs light in many areas. Counts on pecans May 19-27 (J.N. Cooper et al.):

District> County	Status	City
East Texas, North> Anderson	eggs 4%	Palestine
Blacklands> Williamson	eggs and damage 3.5%	Georgetown
Blacklands> Cooke	none	Gainesville
Blacklands> Hamilton	light	-
Blacklands> Bell	light	-
SC> Caldwell	infested clusters 6%	Lubing
SC> Travis	light	-
Cross Timbers> Parker	eggs 2 per 300 clusters	Weatherford
Cross Timbers> Brown	eggs 5%	Brownwood
Cross Timbers> Eastland	light	-
Upper Coast> Fort Bend	new entry	Richmond
Upper Coast> Galveston	light	-
Edwards Plateau> Tom Green	hatched	San Angelo
Edwards Plateau> Tom Green	emergence 28%	San Angelo
Southern Low Plains> Taylor	light	-
East Texas, South> San Augustine	eggs 8 per 150 clusters	San Augustine

Current pecan nut casebearer activity predictions based on temperature model with real time temperatures up to June 6 (J.A. Jackman). See CPPR 5(15):283 for details.

District> County	10% adult emergence	First significant nut entry	City
Southern High Plains> Lubbock	May 16	May 21	Lubbock
Southern High Plains> Midland	May 14	May 26	Midland
Northern High Plains> Potter	May 31	Jun 11	Amarillo
Northern High Plains> Dallam	Jun 2	Jun 13	Dalhart
Southern Low Plains> Taylor	May 7	May 18	Abilene
Northern Low Plains> Childress	May 15	May 27	Childress
Northern Low Plains> Wichita	May 14	May 25	Wichita Falls
South Texas> Jim Wells	Apr 22	May 2	Alice
South Texas> La Salle	Apr 22	May 2	Cotulla
Trans-Pecos> Brewster	May 11	May 22	Alpine
Trans-Pecos> El Paso	May 11	May 22	El Paso
Trans-Pecos> Pecos	May 8	May 19	Fort Stockton
Trans-Pecos> Presidio	May 19	May 26	Presidio
Trans-Pecos> Winkler	May 8	May 19	Wink
SC> Travis	Apr 27	May 8	Austin
SC> Bexar	Apr 28	May 8	San Antonio
Upper Coast> Jefferson	May 1	May 11	Beaumont
Upper Coast> Galveston	May 1	May 11	Galveston
Upper Coast> Harris	Apr 27	May 7	Houston
Upper Coast> Victoria	Apr 28	May 8	Victoria
Lower Valley> Cameron	Apr 19	Apr 29	Brownsville
Lower Valley> Hidalgo	Apr 17	Apr 26	McAllen
East Texas, North> Panola	Jun 14	Jun 26	Clayton
East Texas, North> Gregg	May 10	May 21	Longview
East Texas, South> Brazos	May 5	May 15	College Station
East Texas, South> Angelina	May 7	May 17	Lufkin
Coastal Bend> Nueces	Apr 21	May 1	Corpus Christi
Blacklands> Tarrant	May 9	May 19	Fort Worth
Blacklands> Dallas	May 5	May 15	Dallas
Blacklands> McLennan	May 7	May 17	Waco
Edwards Plateau> Val Verde	Apr 26	May 6	Del Rio
Edwards Plateau> Kimble	May 6	May 16	Junction
Edwards Plateau> Tom Green	May 7	May 18	San Angelo
Cross Timbers> Palo Pinto	May 12	May 23	Mineral Wells

BLACK MARGINED APHID (*Monellia caryella*) - ARIZONA - First of season. District> County= counts per 100 pecan leaves: SE> Pima= 0-40 and C> Pinal= 0-1. (C. Blair et al.).

SMALL FRUITS

INSECTS

GRAPE ROOT BORER (*Vitacea polistiformis*) - SOUTH CAROLINA - District> County= larvae per vine May 15: E> Florence= moderate to heavy, 3-8 in vineyard, caused mortality. (C.S. Gorsuch).

GRAPE PLUME MOTH (Pterophorus periscelidactylus) - VIRGINIA - District> County= larval status on grapes May 28: SW> Montgomery= numerous and actively feeding. (M. Kosztarab).

ORNAMENTALS

INSECTS

BLACK THREAD SCALE (Ichnaspis longirostris) - FLORIDA - New county record. District> County= collection data from leaves and stems of rooted cuttings of Ficus benjamina (weeping fig): NE> Suwannee= adults severely infested 80% of 109 plants in nursery at McAlpin, April 29, 1980, collected by C. Webb, determined by A.B. Hamon. Original plant in nursery 1+ years. (C. Webb).

FOREST AND SHADE TREES

DISEASES

DUTCH ELM DISEASE (Ceratocystis ulmi) - CALIFORNIA - District> County= status in SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) trap survey week ending May 30: Central Coast> Marin, Contra Costa, San Mateo, Santa Clara, and Sonoma= several positive fungal identifications made, 1 based on wood sample at El Verano in latter county. (T. Tidwell).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - FLORIDA - First record of association with cerambycid beetle adults in North America. District> County= collection data from a CERAMBYCID BEETLE (Monochamus carolinensis): C> Alachua= dauerlarvae heavy in beetles reared from 9-year-old Choctawhatchee race and Ocala race Pinus clausa (sand pine) planted near Gainesville, April 2, 1980; beetles collected, reared, determined, and tested for transmission of nematodes by R.C. Wilkinson, A.H. Chappelka; nematodes determined and processed by A.C. Tarjan, R.P. Esser, J.J. Frederick, and K.J. Harkcom. Nematode larvae heavy in dead or dying trees uprooted at 1, 4, and 6-m levels in main stem of both trees and 15 cm below root crown in 1 tree. Nematodes not transmitted, after 1 month, to branches on 6-year-old healthy Choctawhatchee sand pines fed upon for 1 week (6 branches x 5 caged beetles) between April 9-12, although 9 out of 10 beetles heavily infested with dauerlarvae. About 10-15,000 larvae present in thoracic spiracles of some beetles. (R.C. Wilkinson et al.).

MARYLAND - District> County= pinewood nematode collection from WHITESPOTTED SAWYER (Monochamus scutellatus): S> Prince Georges= 1 adult beetle collected from declining Pinus virginiana (Virginia pine) tree at Beltsville, May 22, 1980, by W.R. Nickle, determined by T.J. Spilman. Nematode larvae from dissected beetle reared on Botrytis cinerea (a fungus) and adults determined by W.R. Nickle and W. Friedman. (W. Friedman).

VERMONT - New State record. County= pinewood nematode collection data from Pinus resinosa (red pine): Chittenden= collected in forest area at Milton, March 10, 1980, by D. Bergdahl, determined by A. Foudin. (A. Foudin).

INSECTS

PALES WEEVIL (Hylobius pales) - OHIO - District> County= status of this species and NORTHERN PINE WEEVIL (Pissodes approximatus) on white pine trees May 22: EC> Carroll= devastated trees in block of 7-8 year olds, most harvested as Christmas trees or boxed and sold as ornamentals, most damage by adults in summer 1979 before reproductive diapause began. (D. Nielsen).

PINE SPITTLEBUG (*Aphrophora parallela*) - MARYLAND - Area> status on wide variety of pines week ending May 23: C> very heavy throughout area, damage this season worst of past 10 years. (R. Hochmuth, J.L. Hellman).

PINE NEEDLE SCALE (*Chionaspis pinifoliae*) - OHIO - District> County= overwintered egg status on Scotch pines (2-2.5m): EC> Carroll= began hatching May 16, moderately infested 20% of pines in 2-ha block, hatch completed May 22. (D. Nielson).

EASTERN TENT CATERPILLAR (*Malacosoma americanum*) - OHIO - District> County= larval status May 20: SE> Washington= nearing pupation, completely defoliated *Prunus* spp. trees growing on margins of agricultural fields, feeding on strawberry plants and blueberries. (R.W. Wadleigh). WEST VIRGINIA - District> County= larvae on predominantly oak forest by May 16: SW> Kanawha= heavy, defoliation complete on 80.9-121 ha. (A.R. Miller).

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

AN INSECT FUNGUS (*Entomophthora phytonomi*) - WEST VIRGINIA - District> County= status of *Hypera postica* (alfalfa weevil) larvae on alfalfa May 14: E> Jefferson and Berkeley and SW> Mason= infected. (P.D. Van Buskirk, J.D. Hacker).

INSECTS

A WEEVIL (*Rhinocyllus conicus*) - CALIFORNIA - District> County= adults on *Carduus* sp. (a thistle) May 27: Siskiyou-Shasta> Siskiyou= laying eggs in general. (K. Brunetti, D. Joley).

FEDERAL AND STATE PROGRAMS

DISEASES

OAT STEM RUST (*Puccinia graminis* f.sp. *avenae*) collections from oats in nurseries at Beeville, Giddings, and College Station, TEXAS (McDaniel), and at Tifton, GEORGIA (Morey), May 15-28. Single stem rust collection from field in De Witt County, Texas. Beeville, Texas, nursery collection identified as race NA 5. Isolates from collections at Celaya, MEXICO, were race NA 27 (56%), NA 16 (27%), and NA 5 (17%). Isolates identified from collections around Monterrey, Mexico, were race NA 27 (100%). (A.P. Roelfs, D. Long).

RYE STEM RUST (*Puccinia graminis* f.sp. *secalis*) - DELAWARE - First of season. District> County= prevalence/severity on rye [early milk] May 28: S> Sussex= less than 5%/less than 5%. (J.B. Helbig).

No WHEAT STEM RUST (*Puccinia graminis* f.sp. *tritici*) reported in United States as of May 27. Normally by this date traces have been reported in southwestern KANSAS commercial fields and moderate severities on susceptible cultivars in Kansas nurseries. Isolates from collections in Celaya, MEXICO, nursery identified as 151-QSH, 113-RPQ, and 151-QCB. Some isolates from collections near Monterrey, Mexico, were races 151-QSH and 29-HJC. (A.P. Roelfs, D. Long).

INSECTS

CEREAL LEAF BEETLE (*Oulema melanopus*) - OHIO - L and M indicates light or moderate for following (R.W. Wadleigh):

<u>District> County</u>	<u>Eggs per</u>	<u>Larvae stem</u>	<u>Larvae per sweep</u>	<u>Adults</u>	<u>Host</u>	<u>Host stage</u>	<u>Stem damage (%)</u>
May 19-20:							
C> Licking	0.3	0	-	0.32	winter wheat	last leaf just visible to last ligule just visible	50 L
SE> Muskingum	0.5	0	-	0.64	winter wheat	last leaf just visible to last ligule just visible	80 L
SE> Washington	0.2	0.13	-	0.26	winter wheat	boot	100 L
SE> Washington	0.3	0.15	-	0.33	winter wheat	boot to first ears visible	100 L
May 20:							
SE> Washington	0.6	0	-	0.75	spring- sown oats	tillers formed	100 M
May 27-28:							
WC> Clark	-	-	0.04	0.0	winter wheat	first ears just visible	0
WC> Champaign	-	-	0.005	0.005	winter wheat	boot to first ears just visible	0
WC> Champaign	-	-	0	0	winter wheat	first ears just visible to one-half of heading process com- pleted	0
*18-385							
WC> Logan	-	-	0	0	winter wheat	flowering	0
WC> Logan	-	-	0	0	spring- sown oats	tillers formed	0

District> County	Eggs per stem	Larvae per stem	Larvae per sweep	Adults	Host	Host stage	Stem damage (%)
WC> Shelby	-	-	0	0.02	winter wheat	flowering	0
WC> Clark	-	-	0	0	winter rye	three-quar- ters of heading pro- cess com- pleted to all ears out of sheath	0
C> Franklin	-	-	1.2	0.04	winter wheat	beginning of flowering	80 L

WEST VIRGINIA - District> County= cereal leaf beetle eggs and larvae per 52 row cm of oats May 20: NW> Ohio= averaged less than 1 and 1 in 1 field; 1st and 2nd instar larval average on oats [7.5 cm tall] May 28: E> Randolph= 3. (J.D. Hacker).

GRASS BUGS (Labops spp.) - UTAH - District> County= status on planted grass range week of May 23: N> Morgan= infestations heavy in general Morgan area. (B. A. Haws).

GRASSHOPPERS - OREGON - County= nymphal status May 16-23-- Wasco= early 1st instars evident along Columbia Gorge; 1st to 3rd instars 8 per 0.8 sq m in localized areas of Tygh Valley. (J. Mellott). Malheur= 1st to 3rd instars of Melanoplus sp. 20 per 0.8 sq m of range between Vale and Adrian; 1st and 2nd instars 15 per 0.8 sq m in localized areas north of Sheaville. Harney= 1st and 2nd instars of Melanoplus spp. 20 per 0.8 per sq m in 5-km-long area between Drewsey and U.S. Highway 20. (J. LaBonte). Umatilla and Morrow= mostly 2nd and 3rd instars of Melanoplus sanguinipes and Melanoplus packardii infested 80,937.4 ha, 20,234 of which is rangeland, the remainder cropland and residential areas; hatch and development slowed by cool, wet weather. (K. Goeden). Morrow= averaged 25 per 0.8 sq m near Ordinance. (R.L. Westcott).

May 26-30-- Mostly Melanoplus spp. on range in few "hotspots" but no large hectares with economic numbers. Recent cold weather apparently caused some mortality but may have delayed hatch. Sherman= 1st and 2nd instars of Melanoplus sanguinipes economic, averaged about 20 per 0.8 sq m in southeast area around Adobe Point, east of Kent, forage in area excellent. Wasco= 30 per 0.8 per sq m on west end of Tygh Ridge to 4-6 per 0.8 sq m on east, newly hatched nymphs up to 100 per 0.9 m on ridge tops but generally subeconomic at 609.6 m and below where nymphs 40 per 0.8 sq m 14 days ago. Jefferson= generally 2 per 0.8 sq m or fewer except around Willowdale where 8 per 0.8 sq m on grain field margins and 46 per 0.8 sq m in adjacent rangeland. Crook= none in 1979 heavily infested areas. (J. Mellott). Gilliam= infested about 4,000 ha with concentrations scattered countywide on irrigated land. (K. Goeden).

Currently-- Wasco= Melanoplus sanguinipes increased to average of 50 per 0.8 sq m at all elevations on Tygh Ridge, nymphs hatched at top of ridge (1,006 m), extensive weather kill in southern area near North Junction and Criterion southward to South Junction, economic levels reduced to 2 per 0.8 sq m on about 20,000 ha. Jefferson= no significant populations found. (J. Mellott). Harney=

Melanoplus sanguinipes economic, 15-20 per 0.8 sq m on 2,833 ha between Crane and Buchanan, concentrated on south and west-facing slopes; 90% 2nd and 3rd instars and 10% 1st instars. Baker= early instar Melanoplus 8+ per 0.8 sq m on about 30,000 ha of rangeland including Rye Valley area and area north of Powder River along southern flank of Wallowa Mountains. (P.J. Johnson). Lake= few Camnula pellucida egg beds in Chewaucan Marsh area, nymphs averaged 40-80 per 0.8 sq m on few hectares in and adjacent to the marsh; Camnula very light in and around Silver Lake, area treated in 1979. (J. LaBonte).

UTAH - District> County= grasshopper status week of May 29: C> Sanpete= emerging near Fayette and Gunnison, and Washington= emerging south of Enterprise. (T. Crowe). TEXAS - Started to hatch in heavy numbers in High Plains area. Area> status on rangeland May 22: High Plains> very heavy, up to 51 per 0.8 sq m. Problems expected in 25 counties (J.F. Leser). On sorghum May 30: NC> heavy in field edges (H.A. Turney).

NORTH DAKOTA - Mostly Melanoplus bivittatus 2nd and 3rd instars with development up to 4th instar, nymphs up to 20 per 0.8 sq m in margins, moved into sunflower fields (up to 30.5 m) and caused light to severe damage. District> County= counts per 0.8 sq m of sunflowers week ending May 30: EC> Cass= averaged 1.8 in 1 field with 75% of 8 fields infested. (C.G. Scholl).

MORMON CRICKET (Anabrus simplex) - UTAH - District> County= counts per 0.8 sq m week of May 29: C> Millard= 2nd and 3rd instars 200 in area 13 km north of Holden, aerial baits applied to 134 ha destroyed 80-90%; E> Uintah= heavy infestation in Antelope Flat, north of Vernal, being investigated. (T. Crowe).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - Larvae in 20-25 cotton squares. District> County= adults in pheromone traps per trap per day week ending May 22: C> Maricopa= 1-25, Pinal= 11, and SW> Yuma= 9-11 (O. Fraser et al.); week ending May 29: C> Maricopa= 0-22 (S. Mitchell et al.); currently: C> Maricopa= 1-47 with 10% of bolls infested, Pinal= 53, and SW> Yuma= 9 (R. Gibbs et al.).

DETECTION

NEW WESTERN HEMISPHERE RECORD

INSECTS

A CHRYSOMELID BEETLE (Chaetocnema concinna (Marsham)) - MASSACHUSETTS - Plymouth County. (p. 374).

NEW STATE RECORD

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - VERMONT - Chittenden County. (p. 383).

NEW COUNTY RECORDS

INSECTS

ALFALFA WEEVIL (Hypera postica) - WEST VIRGINIA - Mercer and Summers. (p. 375).

BLACK THREAD SCALE (Ischnaspis longirostris) - FLORIDA - Suwannee. (p. 383).

OTHER NEW RECORDS

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - FLORIDA - First association with a CERAMBYCID BEETLE (Monochamus carolinensis) in North America. (p. 383).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
Mesa 5/26-6/1		B		6	494	12		4						1				7	27
CALIFORNIA																			
Bellota 6/1	12-28	B		11	1	5													
Manteca 6/29	11-27	B		1		1													
FLORIDA																			
Gainesville 5/29-6/4		B										10					1	1	1
KENTUCKY																			
Hopkinsville 5/28-6/3		B		0		0				31									
Lexington 5/29-6/3		B		8		1				4									
Christifan Co. 5/28-6/3		4P				0				3									
Fayette Co. 5/28-6/3		2P				0				0									
MARYLAND (Countys)																			
Baltimore 5/30-6/1		B		2		2				30									
MINNESOTA																			
Fergus Falls 5/29-6/2		B		4		4				1								11	
Montgomery 5/29-6/2		B								1									
MISSISSIPPI																			
Stoneville 5/30-6/5	21-33	2B		741		87	14	2				1					1	69	4
NEBRASKA																			
Aurora 5/29-6/4		B		18	19	1				43									
Clay Center 6/2-5		B		10	11	3				17								4	
SOUTH CAROLINA																			
Longcreek 5/23-29		11P							0.06				0.4						
Mountain Rest 5/23-29		7P							0.03				0						
TEXAS																			
College Station 5/28-6/4		B		0	0	0	0	0			0			0	0	0	0	0	0
UTAH (County)																			
Utah 5/16-28		5P							119										
VIRGINIA																			
Painter 5/25-31		B								10								13	
Frederick Co. 6/2		P							1										

TRAP COLLECTIONS																			
°C	precip.	Trap	ACw	Aw	BAw	BCw	CEw	ClO	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
WISCONSIN																			
Lancaster 5/28-6/3		B		6		0				1								0	
Mazomanie 5/28-6/3		B		1		0				33								0	

ABBREVIATIONS:																													
B	Blacklight	ACw	Army Cutworm	ClO	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm																				
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm																				
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm																						
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm																						
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm																						

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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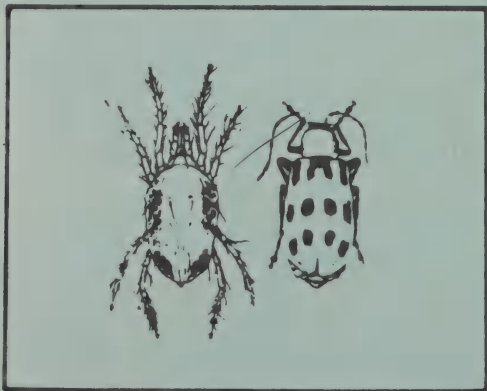
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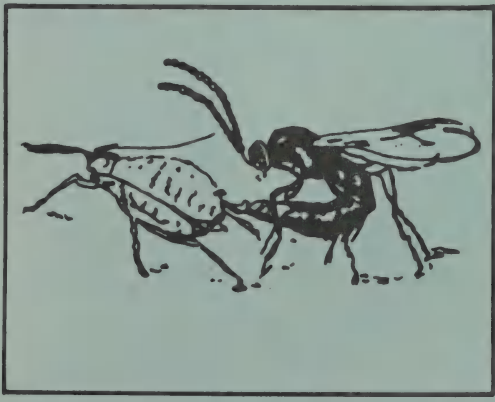
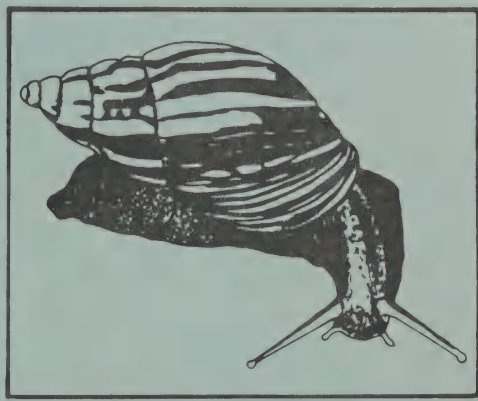
Plant Protection
and Quarantine

Cooperative Plant Pest Report

June 20, 1980

Vol. 5

No. 21



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER feeding damage near economic threshold in Midwestern Kentucky. (p. 394).

WHEAT POWDERY MILDEW continued to intensify on wheat starting to head out in parts of south-central and southeastern Wisconsin. (p. 396).

CHINCH BUG moving into sorghum in Kansas. (p. 395-396).

First economic damage by HESSIAN FLY in eastern one-half of Washington. (p. 397).

Detection

New State records include a NOCTUID MOTH (p. 395) and POTATO STEM BORER (p. 402) in Ohio.

For new county records see page 405.

Some First Occurrences of the Season

COMMON SMUT and COMMON MAIZE RUST on corn in Kansas. SOUTHWESTERN CORN BORER adults in Texas and egg mass on corn in KANSAS. SCAB on wheat and BACTERIAL PUSTULE on soybeans in Kansas. PEACHTREE BORER and PEACH TWIG BORER adults in Colorado.

Reports in this issue are for the week ending June 13 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON SMUT (*Ustilago maydis*) - KANSAS - First of season. District> County= prevalence on corn [76 cm tall]: NE> Pottawatomie= trace in 1 field. (T. Sim, IV). GEORGIA - Area> prevalence per 25 corn [midwhorl] plants June 9: SE> 2% in 1 field. (W.T. Glover).

COMMON MAIZE RUST (*Puccinia sorghi*) - KANSAS - First of season. District> County= prevalence on corn [0.9 m tall]: NE> Pottawatomie= trace in 1 field. (T. Sim, IV). GEORGIA - Area> prevalence/severity per 25 corn [midwhorl] plants June 9: SE> 30%/2% in 1 field. (W.T. Glover).

NORTHERN LEAF BLIGHT (*Setosphaeria (Exserophilum) turcica*) - MARYLAND - District> County= prevalence of imperfect stage on sweet corn week ending June 6: Eastern Shore> Wicomico= 75%, severe. (R. Hochmuth).

MAIZE DWARF MOSAIC VIRUS - KANSAS - Still common on corn in central and eastern areas. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
SC> Sumner	trace	midwhorl
C> Barton	0.5	early whorl
NE> Pottawatomie	trace to 5	early whorl
NE> Marshall	60	midwhorl
NE> Jackson	1	midwhorl
EC> Anderson	50	early whorl

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - KANSAS - District> County= status on corn [host height if given]: EC> Anderson= eggs trace [0.6-0.9 m] in 3 of 5 fields (S.C. White), SE> Bourbon= larvae, up to 0.64 cm long, infested whorls of 0-10% of plants in 3 of 25 fields (G.E. Lippert), NE> Jefferson= eggs on 5% of plants [1 m] (B.D. Hilbert), SC> Edwards= egg masses on 15% of plants [0.9 m] in 1 field, 20% hatched June 13 (G.A. Salisbury), SW> Ford= egg masses common on plants adjacent to north and east sides of windbreaks protected from recent strong southwest winds in area south of Dodge City (H.E. Thompson), and SW area> eggs and adults in fields [most very small but some up to 0.6 m] (D.E. Mock). MISSOURI - District> County= status week ending June 7: SE> Mississippi= first egg masses and larvae seen (M. Roof), W> Bates= egg masses observed, and NW> Atchison and NC> Mercer= adults observed (R.E. Munson).

WISCONSIN - European corn borer pupation began. With warm weather, first adults expected June 1 in blacklight traps. District> County= status on corn week ending May 23: SC> Columbia= overwintered larvae (8%) entered pupal stage, adult emergence began and C> Adams= overwintered larvae 56%, pupae 44%, and empty pupal cases 0% from dissected cornstalks near Grand Marsh. Week ending May 30: SC> Columbia= overwintered larvae 84%, pupae 12%, and empty pupal cases 4% from dissected cornstalks at Wyocena. Continued warm weather could produce heavy catches in blacklight traps in 1 or more weeks. Very little corn tall enough to attract egg laying in next 2 or 3 periods. Widespread damage to grain corn seems unlikely; very early, fresh market sweet corn may be infested late in adult flight. (O.L. Lovett).

Wisconsin - Week ending June 6: No European corn borer egg laying noted, adults in blacklight traps contained no well-developed eggs. Adult emergence in full swing, relatively cool, windy nights may reduce blacklight trap catches at some trapping stations. Adults numerous from Central Sands area in grassy areas, alfalfa, oats, and some potato fields southward. SC> Dane= no egg laying noted. With good growing conditions, earliest corn may be susceptible to egg laying by next period. Percent larvae, pupae, and empty pupal cases from dissected cornstalks: C> Adams= 40%, 50%, and 10%; SC> Columbia= 72%, 16%, and 12%; and WC> St. Croix= 68%, 28%, and 4%. C> Adams= all dissected larvae parasitized by probably *Macrocentrus grandii* (a braconid wasp). Pupal cases of this wasp numerous in European corn borer tunnels in field. At above site, all pupation finished, situation may be same at other sites.

Wisconsin - European corn borer degree-day accumulations (modified base 10°C) March 1 to May 21, to May 28, and to June 4, respectively: SC> Dane= 175, 244.7, and 305.3 at Madison, SE> Washington= 186, 186, and 302 at Hartford, EC> Outagamie= 178, 178, and 305.3 at Appleton, C> Wood= 200, 200, and 327 at Marshfield, and WC> Dunn= 247.5, 247.5, and 386.4 at Menomonie. (O.L. Lovett).

GEORGIA - Area> 2nd to 4th European corn borer instar larvae (average) per 25 corn [early to midwhorl] plants June 9: SE> 1-7 (2.5) in 4 fields. Drought severe. (W.T. Glover, E.W. Elder). KENTUCKY - District> County= status on early planted corn week ending June 6: Most of State> egg masses, early instar larvae, and "shothole" feeding damage relatively light; Midwestern> Christian= feeding damage on nearly 50% of plants, near economic threshold. (P.E. Sloderbeck). MARYLAND - District> County= status on corn week ending May 30: Eastern Shore> Somerset and Wicomico= first egg masses on corn (J. Hellman, R. Hochmuth); week ending June 6: Eastern Shore and C areas> first larval population relatively light and NC> Montgomery and Queen Annes= 30%, heaviest reported infestations. (R. Hochmuth).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - TEXAS - First adult emergence. District> County= on sorghum June 28-29: Northern High Plains> Hale= pupae 87%, adults emerged May 28 (G.B. Cronholm et al.). KANSAS - First egg mass of season. District> County= eggs on corn: SW> Ford= 1 mass found. (H. Thompson, F.L. Poston).

CORN EARWORM (*Heliothis zea*) - TEXAS - District> County= adults per trap per day in sorghum June 6: Northern High Plains> Hale= 15-240. (G.B. Cronholm et al.). GEORGIA - Area> larvae (average) per 25 corn [host stage] plants in number of fields (f) June 9: SW> 2nd to 4th instars 1-3 (2) [early to midwhorl] in 4f, fields irrigated almost daily; SE> 2nd to 5th instars 1-6 (2.7) [early to midwhorl] in 9f, drought severe (W.T. Glover et al.); and N> 3rd instar 1 (-) [early whorl] in 1f (E.W. Elder).

BLACK CUTWORM (*Agrotis ipsilon*) - WISCONSIN - Adults still attracted to pheromone traps. District> County= status week ending May 23: SW> Sauk= larvae about 3 (3 cm long) per 100 plants, damaged irrigated corn, and SC> Dane= 3 males in pheromone trap in southern area and none in northern area since May 12. (O.L. Lovett).

ILLINOIS - District> County= black cutworm on corn week ending May 23: SW> St. Clair, Monroe, E> Iroquois, and ESE> Marion= fields treated for damage, and Richland, Clark, SE> Wayne, Jefferson, and SW> Clinton= feeding damage in fields. Week ending May 30: Around State> late instar larvae continued to cause light to moderate cutting damage; ESE> Clay= 1 tilled field treated. (A.M. Agnello).

MARYLAND - District> County= black cutworm larvae on corn week ending June 6: NC> Washington= heavy, 1 per 0.3 row m caused up to 60% stand loss. (R. Hochmuth).

FALL ARMYWORM (*Spodoptera frugiperda*) - GEORGIA - Area> larvae (average) per 25 corn [early whorl] plants June 9: SW> 3rd instar 2 (-) in irrigated field (W.T. Glover); and SE> 4th instar 1-2 (1.5) in 2 fields (T.H. Murphy). NORTH CAROLINA - Area> County= survey on corn in about 250 fields (1,335 ha) June 2-5: Statewide> populations concentrated along coast from Southern Coastal district> Brunswick County to Northern Coastal district> Chowan County and inland to Southern Coastal district> Sampson and Robeson Counties, Chowan= infested about 40% of plants (0.3 m tall) in 2 fields. (T. Hunt).

ARMYWORM (*Pseudaletia unipuncta*) - KENTUCKY - District> County= status on corn week ending June 6: Midwestern> Christian= exceeded economic threshold in 1 no-till field. (P.E. Sloderbeck). NORTH CAROLINA - Damage detected in no-till corn. District> County= status on corn June 2-5: Northern Mountain> Wilkes= about 4.0 ha planted into fescue reached threshold level. (M. Miller).

STALK BORER (*Papaipema nebris*) - WISCONSIN - District> County= status on seedling corn week ending June 6: SW> Grant= damage severe by several larvae (about 6.4 mm long), limited to about 4% of plants in outside rows. (O.L. Lovett). MARYLAND - District> County= stalk borer larvae per 20 plants week ending May 30: Eastern Shore> Worcester= first larval population of season averaged 1 in outer 10 rows. Serious pest in certain fields in central area in recent years. Status week ending June 6: NC> Baltimore, Carroll, Washington, and Eastern Shore> Worcester= below economic levels but spotty populations of 1 per 4.6 row m in edges of isolated fields. (R. Hochmuth).

A NOCTUID MOTH (*Hydroecia immanis*) - OHIO - New State and county records. District> County= collection data: WC> Champaign= adults in blacklight traps near Urbana, July 24, 1976, and SE> Vinton= in blacklight traps near McArthur, August 27, 1976, both collected and determined by E. Metzler. Has been problem on corn in nearby State. (R. Rings, E. Metzler).

SOUTHERN CORN ROOTWORM (*Diabrotica undecimpunctata howardi*) - GEORGIA - Area> adults (average) per 25 corn [host stage] plants in number of fields (f) June 9: SW> 1-3 (2) [late whorl to silk] in 4f (G. Galbreath), SE> 2-3 (2.3) [early to midwhorl] in 3f (W.T. Glover), and N> 4 (-) [early whorl] in 1f (E.W. Elder). ILLINOIS - District> County= status on corn week ending May 17-30: Southern part of State, ESE> Marion and WSW> Madison= adults noted. (K. Black, A.M. Agnello).

GREENBUG (*Schizaphis graminum*) - KANSAS - District> County= counts per sorghum [host stage if given] plant: E and SC areas> no significant populations (G.E. Lippert et al.); NW area> flights seemed to decrease (K.O. Bell, Jr.); and NW> Sheridan, Rawlins, and Decatur= mostly 8-20 (2-3 winged) [3-5 leaf] with 250 (40 winged) [4 leaf] and severe damage in 1 field near Traer in latter county. (K.O. Bell, Jr.).

CHINCH BUG (*Blissus leucopterus leucopterus*) - KANSAS - District> County= status on sorghum [seedling]: C> Dickinson= some minor movement from nearby heavily infested wheat at 2 sites, wheat maturing rapidly, major migrations expected soon (K.O. Bell, Jr.); SE> Chautauqua= seriously damaged about 57 rows at 1 site adjacent to oats (treated) and some minor movement into nearby sorghum [stage not reported] field from adjacent wheat (S.C. White); NE> Riley=

some minor chinch bug movement from wheat (H.L. Brooks); NE> Jefferson, Jackson, and Pottawatomie= some nymphal and plant damage in few rows at sites adjacent to lightly infested wheat; and C> Dickinson and Saline= none in 3 planting-time treated fields adjacent to wheat (B.D. Hilbert).

SMALL GRAINS

INSECTS

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - KANSAS - Continued obvious but light in State. Almost nonexistent in southwestern area. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
SC> Comanche	trace	trace	late flower
SC> Stafford	50	trace to 5	milk
SC> Reno	trace	trace	milk
SC> Sumner	trace	trace	soft dough
EC> Chase	trace	trace	milk
NC> Ottawa	trace	trace	soft dough
C> Saline	10	trace	soft dough
C> Lincoln	trace	trace	soft dough
C> Ellsworth	10-40	trace	soft dough
C> Rice	trace to 90	trace	soft dough
C> Barton	trace to 20	trace	soft dough
NE> Riley	10	1	soft dough
NE> Marshall	trace	trace	soft dough
NE> Nemaha	trace	trace	soft dough
NE> Brown	trace to 20	trace	soft dough
NE> Jackson	trace	trace	soft dough

RYE LEAF RUST (*Puccinia recondita* f.sp. *secalis*) - WISCONSIN - Area> status on rye week ending June 6: Central Sands> easily found in fields, not severe, usually on lower leaves, moderate on flag leaves in few fields. (O.L. Lovett).

CROWN RUST (*Puccinia coronata*) - WISCONSIN - Area> status on buckthorn week ending May 23: S> orange cluster cup stage found. Early, heavy buildup on buckthorn provides inoculum for early oat infection. (O.L. Lovett).

OAT CROWN RUST (*Puccinia coronata* var. *avenae*) - WISCONSIN - District> County= status on small grains June 4: SC> Dane and SE> Kenosha= early development in fields with buckthorn along borders. (O.L. Lovett).

SEPTORIA GLUME BLOTCH (*Leptosphaeria* (*Septoria*) *nodorum*) - MARYLAND - Area> prevalence of imperfect stage on wheat week ending June 6: Eastern Shore> common in fields. (R. Hochmuth).

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - WISCONSIN - District> County= status on winter wheat week ending May 30: SC> Dane and Rock= developing rapidly, 25% severity in some fields killed many lower leaves. Fields more severely infected in boot stage, ready to head out soon. Week ending June 6: SC> Dane, Jefferson, Rock, SE> Racine, and Kenosha= continued to intensify in many fields, more prevalent on lower leaves, can spread rapidly under favorable weather conditions. Wheat starting to head out in some counties. (O.L. Lovett).

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - KANSAS - District> County= prevalence on wheat [soft dough]: NE> Riley= 25% in 1 field. (T. Sim, IV).

HELMINTHOSPORIUM LEAF BLOTCH (*Pyrenophora (Drechslera) chaetomoides*) - WISCONSIN - District> County= status of Drechslera avenacea stage on oats week ending May 30: SC> Dane and Rock= early development noted. Generally little damage in past years. (O.L. Lovett).

TAN SPOT (*Pyrenophora trichostoma*) - KANSAS - Continued most prevalent foliar wheat disease, 100% prevalences common in most areas. (T. Sim, IV).

TAKE-ALL (*Gaeumannomyces graminis* var. *tritici*) - KANSAS - District> County= prevalence on wheat [soft dough or milk]: SC> Sedgwick, Sumner, NC> Ottawa, and NE> Nemaha= trace and NE> Brown= 10% in 1 field. (T. Sim, IV).

LOOSE SMUT (*Ustilago nuda*) - KANSAS - District> County= prevalence on wheat: NE> Nemaha and Brown= trace. (T. Sim, IV). MARYLAND - Area> status week ending May 30: Eastern Shore and C> spotty on barley, less than 1% damaged heads in all fields sampled; week ending June 6: NC district> Washington County= heavy on wheat, 15% of fields with damaged heads, heaviest reported case. (R. Hochmuth).

SCAB (*Fusarium* spp.) - KANSAS - First of season. District> County= prevalence on wheat: SE> Labette and SC> Sedgwick= trace. (T. Sim, IV).

HALO BLIGHT (*Pseudomonas coronafaciens*) - WISCONSIN - District> County= prevalence on oats week ending June 6: SC> Dane and Jefferson= leaf symptoms developed in several fields. (O.L. Lovett).

BARLEY YELLOW DWARF VIRUS - KANSAS - Status on oats [heading] (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>
NE> Marshall	10
NE> Nemaha	10-40
NE> Brown	10

INSECTS

HESSIAN FLY (*Mayetiola destructor*) - WASHINGTON - First economic damage in eastern area. District> County= status on spring wheat June 3: C> Benton= pupae in 52% of 36 ha with 30-50% yield reduction expected. (K. Pike).

ARMYWORM (*Pseudaletia unipuncta*) - KANSAS - District> County= larvae per 0.3 row m of barley: SC> Edwards= 6-8, seriously damaged 8-ha field. (D.E. Mock). MISSOURI - Area> status on small grains week ending June 7: NW and NC> population lighter than in west-central area last week, larvae 0-18 per 0.09 sq m, economic threshold (4 per 0.09 sq m) in 10% of fields; and WC> up to 20% of leaves cut off plants in 2 fields in heavily infested area. (R.E. Munson).

ILLINOIS - District> County= armyworm status in wheat fields and field margins week ending May 23: W> Schuyler, Warren, Brown, WSW> Morgan, Sangamon, Macoupin, and SW> St. Clair= small numbers swept, Monroe= 15 per 50 sweeps, and Randolph= 8 per 50 sweeps; specimens, about 0.64-0.95 cm long, per 0.3 row m: WSW> Greene= 0.3, Montgomery= 2, and Madison= 2.5. (S. Moore). Small numbers of larvae, various sizes, still evident in most wheat week ending May 30. District> County= larvae, 0.953-3 cm long, per 0.3 row m of small grains: WSW> Montgomery and Jersey= 1, and Macoupin= 2. (A.M. Agnello). MARYLAND - Area>

armyworm status on small grains week ending May 30: Eastern Shore> population scattered but well below normal levels, lightest in past 4 years. (J. Hellman, R. Hochmuth). District> County= larval status on small grains week ending June 6: Eastern Shore area> continued relatively light, and Eastern Shore> Caroline= 2 per 0.3 m, heaviest populations. (R. Hochmuth).

GREENBUG (*Schizaphis graminum*) - KANSAS - Area> status= SW> some nonwinged specimens still on wheat (D.E. Mock) and NW> some, mostly nonwinged, on wheat and oats. (K.O. Bell, Jr.).

FORAGE LEGUMES

DISEASES

SPRING BLACK STEM AND LEAF SPOT (*Phoma medicaginis*) - KANSAS - Foliar disease light on second alfalfa growth due to recent dry weather. Disease still obvious on remainder of first cutting. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host height (cm)</u>
NE> Marshall	100	1-25	76
SC> Sumner	100	1-25	53
C> Saline	80	0	30
C> Lincoln	80	0	30

LEPTO LEAF SPOT (*Leptosphaerulina briosiana*) - KANSAS - District> County= prevalence on alfalfa [30 cm tall]: NE> Pottawatomie= 80% and trace in 2 fields. (T. Sim, IV).

COMMON LEAF SPOT (*Pseudopeziza medicaginis*) - MARYLAND - Area> County= status on alfalfa week ending June 6: Eastern Shore and NC district> Washington= symptoms on lower leaves. (R. Hochmuth).

INSECTS

ALFALFA WEEVIL (*Hypera postica*) - NEVADA - District> County= range (average) per sweep of seed alfalfa: W> Pershing= 0-113.2 (17.95) at Lovelock, May 18-24; and Humboldt= no data (no data) at Jungo, May 26. (J. Berg et al.). Larvae per sweep of hay alfalfa week ending May 30: W> Churchill= averaged up to 150 at Fallon (W. Arnett et al.), and Washoe= ranged 15-30 at Sparks (W. Arnett). UTAH - Area> larvae per sweep of alfalfa week of June 5: Delta> 0-20 in fields. (D.W. Davis).

COLORADO - Alfalfa weevil larval populations varied in southwestern counties. District> County= counts per sweep and percent tip damage May 21-27: SE> Pueblo= 2-35 and 10-100%, Crowley= 1-25 and 10-70%, Otero= 0-60 and 0-100%, Bent= 1-26 and 10-60%, and Prowers= 1-40 and 10-100%. (F.C. Schweissing). KANSAS - Area> adults of this species and CLOVER LEAF WEEVIL (*Hypera punctata*) on alfalfa: C> species in various combinations and sometimes 1 species alone held back regrowth in scattered fields, parts of Barton County heavily infested. (H.L. Brooks, K.O. Bell, Jr.). MISSOURI - Area> status on alfalfa week ending June 7: NW and NC> pupae about 50% of population, all larval stages present, adult emergence well underway, and N> most alfalfa [50% bloom] should be cut. (R.E. Munson).

ILLINOIS - Alfalfa weevil population peaked south of U.S. Highway 136, fields treated or cut as needed. Some larvae fed on new forage legume growth. District> County= larvae per 30 alfalfa stems [host height if given] and percent tip feeding week ending May 23: E> Piatt and Iroquois= feeding damage still light [no data] and no data; NW> Jo Daviess, Stephenson, Winnebago, and Ogle= very light [no data] and no data; Carroll= up to 40 [53 cm] and 10%, 35 [36 cm] and 50% in field in sandy area; Henry, Whiteside, Mercer, W> McDonough, Warren, and Knox= 3-23 [about 50 cm] and 5-10%; Brown and Schuyler= no data [no data] and 50% in fields; and Fulton= rapidly neared economic damage levels in some fields; and WSW> Macoupin and Greene= pupation noted. Some fields in northern area reached serious damage levels week ending May 30. Larval status: NW> Carroll, Stephenson, and Jo Daviess= about 50 in 1 sweep, as light as 25 per 30 stems [56 cm tall] and tip feeding 25% in problem fields, varied widely between fields, and ESE> Moultrie= fed on stubble. (A.M. Agnello).

WISCONSIN - District> County= alfalfa weevil on alfalfa week ending May 23: Most areas of State> hatch well underway, early "shothole" larval feeding in tips; SC, SW, WC, NW, and C> larvae 0.1-6 per sweep; SW> Grant, Sauk, and SC> Dane= larvae heavier and tip feeding heaviest in sandy soils along Wisconsin River. Small larvae swept but tip damage trace in many surveyed fields. Tip damage did not exceed 5% anywhere. Adults in surveyed area 0-1 per sweep and egg clusters 0.25-3 per 10 stems, heavier in NW> Washburn County. Populations lighter in 1980 growing season than in 1979. SC> Dane= 3 larvae extracted from 30 tips [48 cm tall] in southern area May 20, larvae 0.9 per sweep but no tip damage in sample of 50 tips in same field.

Wisconsin - Alfalfa weevil week ending May 30: Southern third of State> heavier rates of tip damage indicate larvae increased; SE, SC, and SW> tip feeding 2-20% in most of alfalfa; SW and SC> tip damage 30-60% in several fields on sandy soils near Wisconsin River; SC> Dane= tip damage 55% in 1 field in western area already treated; EC> tip damage 5%. Mostly 2nd and 3rd instars in surveyed fields. SC> Dane= 5.9 larvae per sweep damaged 6% of tips in 1 field in southern area. Larvae (extracted by Berlese funnel) 20 from 30 tips, 60% 3rd instar. Most larvae hatched and remaining near hatch, adults in several fields. Adults and late-hatched larvae may feed on second growth.

Wisconsin - Alfalfa weevil degree-day accumulations (base 8.9°C) March 1 to May 21, and to May 28, respectively: SC> Dane= 162 and 238 at Madison, SE> Washington= 172 and 238 at Hartford, EC> Outagamie= 182 and 263 at Appleton, C> Wood= 183 and 261 at Marshfield, and WC> Dunn= 223 and 312 at Menomonie, SW> Grant= 194 and 277 at Lancaster, and NW> Washburn= 213 and 298 at Spooner. (O.L. Lovett).

VARIEGATED CUTWORM (*Peridroma saucia*) - KANSAS - District> County= larvae per 0.8 sq m of alfalfa: SW> Ford= large specimens averaged 8-15, held back regrowth in many fields. (H.E. Thompson).

APHIDS (*Acyrtosiphon* spp.) - NEVADA - District> County= PEA APHID (*Acyrtosiphon pisum* mostly and BLUE ALFALFA APHID (*Acyrtosiphon kondoi*) range if given (average) per sweep of seed alfalfa: W> Humboldt= no data (4.4) at Jungo, May 26; and Pershing= 0.12-81.25 (18.48) at Lovelock, May 18-24 (J. Berg et al.); mostly latter species on hay alfalfa week ending May 30: W> Washoe= 100-200 at Sparks (W. Arnett).

POTATO LEAFHOPPER (Empoasca fabae) - ILLINOIS - District> County= counts per sweep of forage legumes week ending May 23: E> Piatt and WSW> Morgan= trace, Scott= 0.3, Greene= 1.8, and Macoupin= up to 3. (S. Moore). MARYLAND - District> County= counts per sweep of alfalfa week ending June 6: NC> Washington= 1. (R. Hochmuth).

MEADOW SPITTLEBUG (Philaenus spumarius) - ILLINOIS - District> County= status on forage legumes week ending May 30: NW> Jo Daviess, Stephenson, and Carroll= threshold levels of 1 or more spittle masses per plant noted, no real nymphal damage apparent. Harvesting infested fields should prevent serious problems. (A.M. Agnello).

LYGUS BUGS (Lygus spp.) - NEVADA - District> County= range (average) of 1st to 3rd instar nymphs, 4th to 5th instar nymphs, and adults per sweep of seed alfalfa: W> Pershing= 0-1.28 (0.28), 0-0.48 (0.1), and 0-0.16 (0.03) at Lovelock, May 18-24; and Humboldt= no data (0.9), no data (no data), and no data (no data) at Jungo, May 26. (J. Berg et al.).

BROWN WHEAT MITE (Petrobia latens) - NEVADA - District> County= status week ending May 30: W> Churchill= heavy on hay alfalfa in dry spots or sandy areas at Fallon (W. Arnett et al.), and Humboldt= heavy, still present in spots on seed alfalfa at Jungo (L. Stitt).

SOYBEANS

DISEASES

PYTHIUM DAMPING OFF (Pythium spp.) - KANSAS - District> County= prevalence on soybeans: NE> Pottawatomie= trace in 1 field. (T. Sim, IV).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojensis) - KANSAS - First of season. District> County= prevalence on soybeans [4 node]: NE> Pottawatomie= 80% in 1 field. (T. Sim, IV).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - MARYLAND - District> County= status on soybeans week ending May 30: Eastern Shore area> very heavy, heaviest populations of 10 adults per 0.3 row m in central counties; some sprays applied to young plants, systemics recommended in new plantings of full season beans. (J. Hellman, R. Hochmuth). Week ending June 6: NC> Kent, Queen Annes, Eastern Shore> Caroline, Talbot, and Dorchester= populations still very heavy; Wicomico, Worcester, and Somerset= more moderate populations present; and C area> heaviest populations, adults 25 per 0.3 row m in field edges near overwintering sites. (R. Hochmuth).

BEAN LEAF BEETLE (Cerotoma trifurcata) - ILLINOIS - District> County= counts per m of soybeans and defoliation week ending May 30: W> Adams= heaviest, 3-4 and up to 20% (C. Helm); counts per 5 m and defoliation: WSW> Montgomery= 2 and less than 5%, Macoupin= 2 and 10%, Morgan= 1 and less than 5%, Greene= 3 and 5%, W> Warren= 1.5 and less than 5%, and Schuyler= 4 and 10%. (A.M. Agnello).

SILVERSPOTTED SKIPPER (Epargyreus clarus) - MARYLAND - Area> status on soybeans week ending June 6: Eastern Shore> Larvae up to 5 cm long, still noneconomic, isolated economic populations expected later in summer. Became serious last 5 years in certain fields; treatment was necessary. (R. Hochmuth).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Decreased in traps in Blacklands area with movement into cotton fields. Punctured squares 2-50% in Gulf Coast area. Status on cotton May 24 to June 6 (W.E. Buxkemper et al.):

District> County	Status
Coastal Bend> Kleberg	punctured squares 2-50%
Coastal Bend> Nueces & South Texas> Jim Wells	punctured squares 4-37%
Coastal Bend> San Patricio & Refugio	punctured squares 2-22%
Blacklands> Hill	adults 5-20 per trap per week
Blacklands> Ellis & Navarro	1-6 per 100 plants
Blacklands> Ellis & Navarro	adults 0-4.66 per trap per week
Northern Low Plains> Dickens	adults 0-48 per trap per week
Northern Low Plains> Dickens	adults 0.05 per trap per week
Northern Low Plains> Kent	adults 1.17 per trap per week
Northern Low Plains> Motley	adults 0.22 per trap per week
Southern Low Plains> Mitchell	adults 0.5-22.2 per trap per week
Southern High Plains> Howard	light
Southern High Plains> Glasscock	light
Edwards Plateau> Reagan	light
Edwards Plateau> Upton	light

BOLLWORMS (*Heliothis* spp.) - TEXAS - BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) generally still light on cotton in Gulf Coast area. Some egg and larval counts heavy in Coastal Bend district> Kleberg County. Counts on cotton June 6 (J.A. Jackman et al.):

District> County	Counts per 100 plants		
	Eggs	Larvae	Damaged squares (%)
Coastal Bend> Kleberg	5-81	3-54	3-8
Coastal Bend> Nueces & South Texas> Jim Wells	0-20	0-16	0-5
Coastal Bend> San Patricio & Refugio	0-10	0-3	0-3

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - MARYLAND - Area> status on tomatoes week ending June 6: Lower Eastern Shore> still very heavy, treatment continued throughout area. (R. Hochmuth).

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - WISCONSIN - Potatoes may be subject to more egg laying than normal due to lack of suitable corn week ending May 30. District> County= status on advanced potatoes week ending June 6: C> Adams= no egg laying noted. (O.L. Lovett).

POTATO STEM BORER (*Hydroecia micacea*) - OHIO - New State and county records. District> County= collection data: NE> Wayne= 1 adult in blacklight trap at Wooster, July 27, 1960, collector unknown, and SE> Vinton= 1 adult in blacklight trap at McArthur, September 7, 1974, by E. Metzler. Both determined by D.C. Ferguson. (R. Rings, E. Metzler).

DECIDUOUS FRUITS AND NUTS

DISEASES

FIRE BLIGHT (*Erwinia amylovora*) - MARYLAND - District> County= status on apples week ending June 6: NC> Washington= started appearing on trees, not expected to be very bad in 1980. (R. Hochmuth).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - COLORADO - District> County= males per trap week ending June 6: Western Slope> Mesa, Delta, Montrose, and Garfield= 0-17. (A.D. Bulla).

PEACHTREE BORER (*Synanthedon exitiosa*) - KANSAS - First adults of season. District> County= status: SC> Sedgwick and NE> Riley= now flying. (M.B. Morris, K.O. Bell, Jr.).

PEACH TWIG BORER (*Anarsia lineatella*) - COLORADO - First of season. District> County= adult in pheromone trap May 22: Western Slope> Mesa= first male caught. (A.J. Merlino).

PEAR PSYLLA (*Psylla pyricola*) - COLORADO - District> County= status May 19: Western Slope> Mesa= all nymphal instars and second generation adults present. (A.D. Bulla).

PEAR SAWFLY (*Caliroa cerasi*) - COLORADO - District> County= larvae per 20 pear leaves May 21-27: Western Slope> Mesa= light, 1-2 in orchards; counts per 10 pear leaves week ending June 6: Western Slope> Mesa= 1-2 in some orchards. (A. D. Bulla).

PECAN NUT CASEBEARER (*Acrobasis nuxvorella*) - TEXAS - Eggs and damage less than 5% in all areas reporting. Spray applied to first generation. Counts on pecans May 22 to June 26 (H.A. Turney et al.):

District> County	Status
Cross Timbers> Parker	some late eggs
Cross Timbers> Parker at Weatherford	eggs 2.8%
Cross Timbers> Parker at Weatherford	first nut entry
Cross Timbers> Parker	eggs 2.8%
Cross Timbers> Stephens	eggs 1%
Cross Timbers> Eastland	eggs 1%
Southern High Plains> Martin	laying eggs
Trans-Pecos> Pecos	nut entry
Edwards Plateau> Tom Green at San Angelo	fresh eggs 10%
Edwards Plateau> Gillespie	egg lay
Upper Coast> Fort Bend at Richmond	damage light
East Texas, North> Anderson at Palestine	nut entry light
East Texas, North> Bowie	eggs 2-3%
East Texas, North> Marion	eggs and larvae 5%

District> County	Status
Blacklands> Cooke at Gainesville	egg lay 9%
Blacklands> Cooke at Gainesville	larvae 3%
Blacklands> Williamson at Georgetown	eggs 3.5%
Blacklands> Coryell	laying eggs
SC> Caldwell at Luling	nut entry 1 in 7 days
Northern Low Plains> Wilbarger	laying eggs

FOREST AND SHADE TREES

INSECTS

DEODAR WEEVIL (*Pissodes nemorensis*) - OKLAHOMA - New county record. District> County= collection data from Pinus echinata (shortleaf pine) log: SE> Mc-Curtain= heavy, pupation almost complete and adult emergence began, at Smithville, May 21, 1980, collected by S.R. Jiracek and D.C. Arnold, determined by D.C. Arnold. This pine species common in area. (D.C. Arnold).

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

SKELETONWEED RUST (*Puccinia chondrillina*) - WASHINGTON - Status on Chondrilla juncea (rush skeletonweed) leaves June 2: NE> Spokane= present at several locations. Spores released in 1979 successfully overwintered and established on Washington late-flowering biotype. (G. Piper).

INSECTS

ICHNEUMONID WASPS (*Bathyplectes* spp.) - INDIANA - New county records for Bathyplectes anurus. All collected and determined by R.W. Meyer. Parasitism of reared Hypera postica (alfalfa weevil) larvae collected in alfalfa in 1980 (parasitism estimates probably lower than actual due to mortality in rearing process) (R.W. Meyer):

District> County	Number of <i>Bathyplectes</i>		Parasitism (%)	Number of weevils reared	Nearest city	Date
	<u>anurus</u>	<u>curculionis</u>				
WC> Vermillion	3	0	33	6	Perrysville	Apr 21
WC> Vermillion	2	0	20	8	Cayuga	Apr 21
SW> Sullivan	1	0	2	40	Carlisle	Apr 21
SW> Sullivan	0	0	0	47	Carlisle	Apr 28
SC> Jackson	36	10	57	36	Seymour	Apr 30

ALKALI BEE (*Nomia melanderi*) - WASHINGTON - District> County= male status June 3: SE> Walla Walla= emerged from earliest bee beds in Touchet and Lowden areas. (C. Johansen, C. Kiouss).

A CECIDOMYIID MIDGE (*Cystiphora schmidtii*) - WASHINGTON - District> County= status on *Chondrilla juncea* (rush skeletonweed) leaves June 2: NE> Spokane= heavy at Nine Mile Falls. (G. Piper).

A CONOPID FLY (*Zodion obliquefasciatum*) - WASHINGTON - District> County= counts per trap stake in *Nomia melanderi* (alkali bee) beds June 5: SE> Walla Walla= up to 4 at Touchet. (C. Johansen, C. Kiouss).

A BOMBYLIID FLY (*Heterostylum robustum*) - WASHINGTON - District> County= status June 4: SE> Walla Walla= emerged from *Nomia melanderi* (alkali bee) beds near Lowden and Touchet. (C. Johansen, C. Kiouss).

KLAMATHWEED BEETLE (*Chrysolina quadrigemina*) - WASHINGTON - District> County= adults on *Hypericum perforatum* (St. Johnswort) June 2: NE> Spokane= heavy, caused defoliation. (G. Piper).

FEDERAL AND STATE PROGRAMS

INSECTS

CEREAL LEAF BEETLE (*Oulema melanopus*) - WISCONSIN - District> County= status on small grains week ending May 23: SC> Jefferson= mating, no eggs noted. *Anaphes flavipes* (a mymarid wasp) releases scheduled for first week in June. Larvae on oats week ending June 6: SC> Jefferson, Dodge, and Dane= 1st instar to full-grown larvae about 1 per 100 sweeps, feeding damage light in first county and not observed in last 2 counties. *Anaphes flavipes* and *Diaparsis temporalis* (an ichneumonid wasp) releases scheduled for June 10 in 2 fields each in above counties. (O.L. Lovett). MARYLAND - District> County= status week ending May 30: Statewide> spotty, subeconomic levels on wheat, and NC> Howard= larvae reached spraying threshold of about 2 per flag leaf on oats; week ending June 6: W counties> larvae increased on wheat and oats in several fields, NC> Washington= up to 607.0 ha of wheat treated to date, and statewide> first adults of season detected. (R. Hochmuth).

GRASSHOPPERS - TEXAS - District> County= status of undetermined species on rangeland June 6: Cross Timbers> Montague= nymphs up to 90 per 0.8 sq m, Southern Low Plains> Mitchell= nymphs 4 per 0.8 sq m, Northern High Plains> Hale= migrating in crops, and Panhandle area= economic in many areas. (H.A. Turney et al.).

KANSAS - District> County= grasshopper status: WC> Logan, NW> Rawlins, Cheyenne, and Sherman= mostly 1st to 3rd instar nymphs generally light to moderate on rangeland (heaviest counts adjusted) in limited surveys in western and northern areas, respectively, averaged about 7 per 0.8 sq m in last 2 counties (L.D. Porterfield, K.O. Bell, Jr.); Graham and Rawlins= generally light on roadsides, mostly 2nd to 4th instars *Melanoplus differentialis* heavier in localized situations (K.O. Bell, Jr.); SE> Butler, EC> Chase, NC> Smith, WC> Greeley, and SW> Finney= heavy, at least in localized situations (H.L. Brooks, D.E. Mock); and SE> Wilson= undetermined species damaged 3 rows of soybeans [2 leaf] (G.E. Lippert).

DETECTION

NEW STATE RECORDS

INSECTS

A NOCTUID MOTH (Hydroecia immanis) - OHIO - Champaign County. (p. 395).

POTATO STEM BORER (Hydroecia micacea) - OHIO - Wayne County. (p. 402).

NEW COUNTY RECORDS

INSECTS

DEODAR WEEVIL (Pissodes nemorensis) - OKLAHOMA - McCurtain. (p. 403).

AN ICHNEUMONID WASP (Bathyplectes anurus) - INDIANA - Vermillion, Sullivan, and Jackson. (p. 403).

A NOCTUID MOTH (Hydroecia immanis) - OHIO - Vinton. (p. 395).

POTATO STEM BORER (Hydroecia micacea) - OHIO - Vinton. (p. 402).

CORRECTIONS

CPPR 5(18):349 - ICHNEUMONID WASPS (Bathyplectes spp.) - INDIANA - Delete all information for Sullivan County in chart.

CPPR 5(20):384 - RYE STEM RUST (Puccinia graminis f.sp. secalis) - DELAWARE - Delete note. (J.B. Helbig).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
Mesa 5/26-6/1		B		6	494	12		4						1			1	7	27
CALIFORNIA																			
Bellota 6/1	12-28	B		11	1	5													
Manteca 6/29	11-27	B		1	4	1													
FLORIDA																			
Gainesville 5/29-6/4		B										10					1		1
KENTUCKY																			
Hopkinsville 5/28-6/3		B		0		0				31									
Lexington 5/29-6/3		B		8		1				4									
Christian Co. 5/28-6/3		4P				0				3									
Fayette Co. 5/28-6/3		2P				0				0									
MARYLAND (Counties)																			
Baltimore 5/30-6/3		B		2		2				30									
MINNESOTA																			
Fergus Falls 5/29-6/2		B		4		4				1								11	
Montgomery 5/29-6/2		B								1									
MISSISSIPPI																			
Stoneville 5/30-6/5	21-33	2B		741		87	14	2				1					1	69	4
VIRGINIA																			
Painter 4/18-24		B		15						31									
WEST VIRGINIA																			
Hurricane 5/27		B		4															
Pipestem 5/24		B		4															
WISCONSIN																			
Mazomanie 5/21-27		B				1				3								0	
Racine 5/20-26		B		7		0				0								1	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Sal tmarsh Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm		

METRIC CONVERSION

1 cm	= 0.393701 in
1 m	= 3.28084 ft = 1.09361 yd
1 km	= 0.621371 mi
1 sq cm	= 0.155000 sq in
1 sq m	= 10.7639 sq ft = 1.19599 sq yd
1 ha	= 2.47104 acres
1 sq km	= 0.386101 sq mi
1 kg	= 2.20462 lb
1 t (metric ton)	= 1.10231 short ton
1 kg/ha	= 0.892183 lb/acre
1 t/ha	= 0.446091 ton/acre

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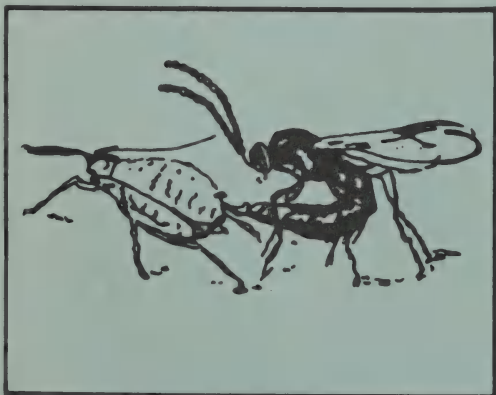
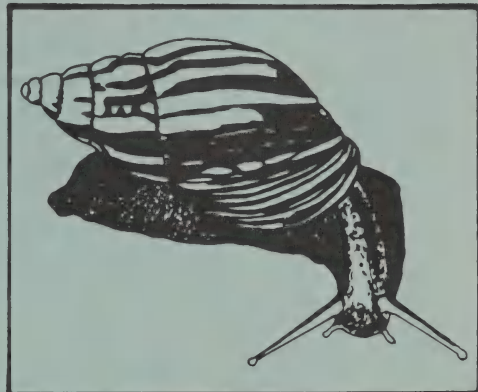
Plant Protection
and Quarantine

Cooperative Plant Pest Report

June 27, 1980

Vol. 5

No. 22



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR

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COOPERATIVE PLANT PEST REPORT**HIGHLIGHTS**Current Conditions

POTATO STEM BORER damaged corn in southeastern area of New York. (p. 411).

Corn replanted due to STALK BORER in north-central area of Maryland. (p. 411).

CHINCH BUG damaged sorghum in parts of southern and eastern Nebraska and south-eastern Missouri. (p. 412).

POTATO LEAFHOPPER may become severe on alfalfa regrowth in Kentucky. (p. 417).

CEREAL LEAF BEETLE damage more serious on wheat than oats in Maryland. (p. 41

Detection

For new county record, see page 421.

Some First Occurrences of the Season

BACTERIAL STRIPE on sorghum in Kansas. FALL ARMYWORM adult in New York. CORN ROOTWORM larvae on corn in northern Missouri. POTATO LEAFHOPPER adults on alfalfa in New York. ALFALFA SEED CHALCID adults in Nevada. JAPANESE BEETLE adults in Kentucky. POTATO EARLY BLIGHT in Wisconsin.

Special Report

Pests Not Known to Occur in the United States or of Limited Distribution.
AN ALLECULID BEETLE (Omophlus lepturoides (Fabricius)). (p. 424-426).

Reports in this Issue are for the week ending June 13 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON MAIZE RUST (*Puccinia sorghi*) - KANSAS - District> County= prevalence on corn: SC> Kiowa= trace in 1 field. (T. Sim, IV).

COMMON SMUT (*Ustilago maydis*) - KANSAS - District> County= prevalence on corn: NW> Graham= trace in 1 field. (T. Sim, IV).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - First of season. District> County= prevalence on sorghum [4 leaf]: C> Marion= 70% in 1 field. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - Continued to be most widespread corn disease. Based on surveys, appeared to be most prevalent through central area. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
NC> Mitchell	2-5	midwhorl
NC> Osborne	trace to 5	early whorl
NC> Rooks	20	early whorl
NC> Phillips	trace to 10	early whorl
NC> Smith	trace to 10	early whorl
NW> Norton	trace	early to midwhorl
NW> Graham	not seen	early whorl
WC> Trego	not seen	early whorl
C> Rush	trace	early whorl
SC> Sumner	2	midwhorl
SC> Sedgwick	2	mid to late whorl
SC> Kiowa	trace	mid to late whorl
NE> Marshall	trace	midwhorl

NEBRASKA - Maize dwarf mosaic virus on corn in commercial fields week of June 16 (S. Poe):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
E> Lancaster	trace	6 leaves
SE> Saline	not seen	5 leaves
SE> Jefferson	trace	6 leaves
SE> Thayer	0-5	6 leaves
SE> Nuckolls	5-10	5 leaves
SE> Clay	0-10	6 leaves
SE> Fillmore	5	7 leaves
S> Webster	20	6 leaves
S> Franklin	5	6 leaves
S> Harlan	0-20	7 leaves
S> Furnas	trace to 5	5 leaves
S> Adams	0-5	6 leaves
S> Kearney	trace	5 leaves
S> Phelps	not seen	6 leaves
C> Dawson	not seen	5 leaves
SW> Frontier	not seen	5 leaves
SW> Lincoln	not seen	5 leaves
SW> Keith	not seen	4-5 leaves

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
SW> Red Willow	not seen	5 leaves
NW> Deuel	not seen	5 leaves
NW> Cheyenne	not seen	5 leaves

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - COLORADO - District> County= adult flights by mid-June: EC> Yuma= 125-300 per night in light traps. (S.L. Pilcher).

NEBRASKA - District> County= percent plant infestation range if given (average) on corn [maximum extended leaf height about 91 cm]: C> Hall, Howard, Buffalo, E> Hamilton, Nance, Merrick, and S> Kearney= egg masses up to 10% (5%) in 25 of 184 fields, 1st instar larvae in some of 25 fields (Monke, Raun); SE> Clay= egg masses and/or 1st instar larvae no data (10%) at South Central Station (Peters); and SW> Lincoln and Perkins= egg masses up to 44% (15%) in virtually all 160 fields, some 1st instar larvae present but most eggs recently laid (Kozub, Troxel).

MISSOURI - District> County= European corn borer status week ending June 14: NW> Atchison= eggs very light, 1st instar larvae light, and few plants with leaf feeding, and W> Bates= leaf feeding on 10.5-30% of plants in few fields. Area> current status: NC> populations light, and egg masses 0-4 per 100 plants, and leaf feeding damage on 0-6% of plants. (R.E. Munson).

MINNESOTA - Corn [2 leaves to early whorl, 38-43 cm tall] plants still too young for successful European corn borer egg laying. Most catches in light traps not significant week ending June 13. Heat unit accumulations (base 10°C) as of June 8 indicate egg laying should be in progress (335 units) or completed by now with SC district past hatch period (388 units). (D.D. Sreenivasam).

WISCONSIN - District> County= European corn borer status: C> Adams and SW> Sauk= 1st instar larvae on advanced corn. Eggs numerous in clumps of volunteer corn in corners of irrigated potato fields, eggs on less than 5% of corn plants in regular plantings. No adults on corn. Flights very heavy on warmer nights and light on cooler nights as indicated by blacklight trap catches. Erratic weather caused erratic adult activity. Degree-day accumulations (modified base 10°C) March 1 to June 18: SC> Dane= 416 at Madison, SE> Washington= 400 at Hartford, EC> Outagamie= 405 at Appleton, C> Wood= 439 at Marshfield, and WC> Dunn= 511.4 at Menomonie. (O.L. Lovett).

KENTUCKY - District> County= European corn borer on corn week ending June 13: Midwestern> Christian= 6 of 126 fields (88.6 of 2,210 ha) treated, some fields near threshold, C> Nelson= feeding damage on 14% of plants, and Bluegrass> Anderson= feeding damage on 35% of plants in 1 field, and S area> few fields above threshold of 50% feeding damage, few fields treated. Current damage appeared much below levels of recent years. Status on corn week ending June 20: Midwestern> Christian= 156 of 3,157 ha above economic threshold (50% of plants infested), S area> larvae (10 mm long) began to bore into stalks and midrib, and more N areas> mostly 1st and 2nd instar larvae still on increase. (P.E. Sloderbeck et al.).

OHIO - European corn borer adults in light traps in 11 counties throughout State. District> County= pupae per cornstalk week of June 10: NW> Allen= 0.05 overwintered individuals still in field corn stubble and 0.15 empty pupal cases found in another field. (R. Wadleigh).

VIRGINIA - District> County= percent European corn borer leaf feeding damage per 100 plants per field June 7: C> Bedford= 22.6%. (J.L. Despins). MARYLAND - District> County= status on corn week ending June 13: Eastern Shore area> populations still below normal for time of year, and NC> Kent= 30% of plants infested in 1 field and less than 10% in 15 other fields, fields distributed throughout central and northern Eastern Shore areas. (R. Hochmuth).

ARMYWORM (*Pseudaletia unipuncta*) - OHIO - District> County= larvae per sweet corn [host stage] plant week of June 9: WC> Logan= 0.05 [early whorl to mid-whorl] in 1 field and 0.1 [2 leaves fully open] in another field. (R. Wadleigh).

FALL ARMYWORM (*Spodoptera frugiperda*) - NEW YORK - First adult of season. District> County= adult in blacklight trap June 8: Long Island> Suffolk= taken at Riverhead. (M. Semel).

CORN EARWORM (*Heliothis zea*) - OKLAHOMA - District> County= egg and larval averages per sweet corn [tasseling] plant week ending June 13: NE> Tulsa= 3.6 and 0.3 in Bixby area. (D.C. Arnold).

BLACK CUTWORM (*Agrotis ipsilon*) - OHIO - District> County= Degree-day accumulations [base 10.42°C]: NE> Wayne= 301.4 at Wooster since March 1, date of first adult capture. Total from January 1 to June 11 is 307.3. (W. Rubink, S. Clement).

POTATO STEM BORER (*Hydroecia micacea*) - NEW YORK - District> County= larvae on field corn: SE> Dutchess= many fields damaged in northeastern area with 10-80% of plants dead. (D. Tetor).

STALK BORER (*Papaipema nebris*) - OHIO - District> County= larvae on sweet corn June 9-10: WC> Logan= 0.1 [early whorls to midwhorl] per plant, feeding in whorls and tunneling in stalks, and Auglaize= found [early whorls] along edge of field. (R. Wadleigh). MARYLAND - District> County= status on corn week ending June 13: NC> Frederick= moderate on 121-162 ha, 2-3% of fields replanted due to losses of about 60% of plants. (R. Hochmuth, J.L. Hellman). DELAWARE - Active in all counties. District> County= status on corn June 7-13: S> Sussex= destroyed up to 10% in 1 field. (D.F. Bray).

CORN ROOTWORMS (*Diabrotica* spp.) - NEBRASKA - District> County= larvae (average) per corn plant: C> Buffalo, Hall, Howard, S> Kearney, E> Merrick, Hamilton, and Nance= up to 5.5 (1) in 54 of 184 fields (Monke, Raun) and SE> Clay= 2nd and 3rd instars on volunteer corn in plots at South Central Station (Peters). MISSOURI - First observed hatch in northern area. District> County= small larvae on volunteer corn: NC> Carroll, Grundy, and Mercer= populations light. (R.E. Munson).

CORN LEAF APHID (*Rhopalosiphum maidis*) - ARIZONA - District> County= nymphs and adults per 25 sweeps of corn: SE> Cochise= 200 at Bowie. (D. Smith). OKLAHOMA - District> County= status week ending June 13: NE> Tulsa= 5-100 per sweet corn plant and C> Grady= averaged 200 per sorghum [30-36 cm tall] plant. (D.C. Arnold).

GREENBUG (Schizaphis graminum) - NEBRASKA - District> County= counts (average) per sorghum [3-5 leaf] plant: SW> Hitchcock= up to 50 (25) in 2 fields, damage ranged from reddened feeding spots to browning of leaves (Danielson), and SE> Clay and Thayer= levels remained light (Peters).

CHINCH BUG (Blissus leucopterus leucopterus) - NEBRASKA - District> County= status on sorghum: SE> Thayer= moved into test plots from maturing wheat, up to 100 per plant [up to 8 cm tall], destroyed plants for 15 m down the rows from wheat, sorghum planted in rows perpendicular to wheat, chinch bugs and damage visible as far as 30 m down the rows from wheat, mostly in 1st, 2nd, and 3rd nymphal instars with few adults present; Thayer, Nuckolls, Gage, S> Webster, and E> southwestern York= damage noted (Peters); E> southern Lancaster and SE> northern Gage= most nymphs in 2nd and 3rd instars with few 4th instars present (Ahmad). MISSOURI - Area> status: SE> heavy population migrated from wheat stubble, destroyed marginal rows of grain sorghum. (Kowalski).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - NEBRASKA - District> County= status of this species and BANKS GRASS MITE (Oligonychus pratensis) on corn: C> Sherman= colonies on 1% of plants in 9 of 48 fields. Small colonies on undersides of lower 2-3 leaves along midrib. Yellowed leaf tissue visible on upper surface of leaves. (Andersen).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - KANSAS - Continued 1 of 2 most common foliar wheat pathogens, found in almost every field surveyed. (T. Sim, IV).

NEBRASKA - District> County= wheat leaf rust status on flag leaves of wheat in commercial fields week of June 16 (S. Poe):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
E> Lancaster	trace	trace	milk
SE> Saline	50	trace	early dough
SE> Jefferson	90	trace	early dough
SE> Thayer	30	trace	milk
SE> Nuckolls	40	trace	milk
SE> Clay	70	trace	milk
S> Kearney	10	trace	milk
S> Webster	60	trace	early dough
S> Franklin	20	trace	milk
S> Harlan	20	trace to 5	early dough
S> Furnas	40	trace	early dough
S> Adams	20	trace	milk
SW> Frontier	15	trace	three-fourths berry
SW> Lincoln	10	trace	milk
SW> Keith	trace	trace	milk
SW> Red Willow	30	trace to 10	one-half berry
NW> Deuel	trace	trace	one-half berry
NW> Cheyenne	5	trace	berry milk

OAT RUST (*Puccinia coronata* f.sp. *avenae*) - KANSAS - District> County= prevalence on oats: SC> Pratt= 100% in 1 field. (T. Sim, IV).

SPECKLED LEAF BLOTCH (*Septoria tritici*) - NEBRASKA - Status on flag leaves of wheat in commercial fields week of June 16 (S. Poe):

District> County	Prevalence (%)	Severity (%)	Host stage
E> Lancaster	20-90	5-10	milk
SE> Saline	70	5-10	early dough
SE> Jefferson	30	10	early dough
SE> Thayer	80	10	milk
SE> Nuckolls	95	5	milk
SE> Clay	90	5	milk
S> Webster	80	trace to 5	early dough
S> Franklin	90	5	milk
S> Harlan	90	5	early dough
S> Furnas	70	5-10	early dough
S> Adams	80	5	milk
S> Kearney	95	10	milk
SW> Frontier	35	5-10	three-fourths berry
SW> Lincoln	40	5	milk
SW> Keith	80	5	milk
SW> Red Willow	80	10	one-half berry
NW> Deuel	50	5	one-half berry
NW> Cheyenne	70	5	milk

ILLINOIS - District> County= speckled leaf blotch prevalence/severity on wheat [host stage] in 1 commercial field each, week of June 9: SE> Hamilton= 100%/15% [early dough], White= 100%/12% [early dough], Gallatin= 100%/8% [early dough], Saline= 100%/5% [middough], Pope= 100%/4% [middough], Massac= 100%/3% [mid-dough], SW> Jackson= 100%/12% [late milk], Randolph= 100%/1% [late milk], Monroe= 100%/8% [late milk], St. Clair= 100%/5% [late milk], WSW> Madison= 100%/4% [milk], Bond= 100%/5% [milk], Montgomery= 100%/7% [late milk], Christian= 100%/12% [milk], and C> Macon= 100%/10% [late milk]. (E.G. Jordan).

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 9: SE> Hamilton= trace/trace [early dough], White= 100%/2% [early dough], Gallatin= trace/trace [early dough], Saline= trace/trace [mid-dough], Pope= trace/trace [middough], Franklin= 100%/1% [early dough], SW> Perry= trace/trace [middough], Jackson= trace/trace [late milk], Randolph= trace/trace [late milk], Monroe= 100%/1% [late milk], St. Clair= trace/trace [late milk], and C> Macon= 50%/trace [late milk]. (E.G. Jordan).

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - WASHINGTON - District> County= status on wheat June 12: E area, EC> Lincoln, NE> Spokane, SE> Whitman, and Asotin= prevalent in dryland areas. 'Daws' and 'Stephens' frequently severely infected. (O. Maloy). ILLINOIS - District> County= prevalence on wheat [host stage] in number of commercial fields (f) week of June 9: SE> Hamilton, White, Gallatin, Saline, Pope, Massac, and Franklin= trace [early to middough] in 7f; SW> Perry, Jackson, Randolph, Monroe, and St. Clair= trace [late milk to middough] in 5f; WSW> Madison, Bond, Montgomery, and Christian= trace [milk to late milk] in 4f; and C> Macon= trace [late milk] in 1f. (E.G. Jordan).

SMOOTH-SPORED BUNT (*Tilletia foetida*) - ILLINOIS - District> County= prevalence on wheat [host stage] heads in 1 commercial field each, week of June 9: SE> White= 1% [early dough], SW> Jackson= trace [late milk], St. Clair= 3% [late milk], WSW> Christian= 1% [milk], and C> Macon= 1% [late milk]. (E.G. Jordan).

OAT BLACK LOOSE SMUT (*Ustilago avenae*) - KANSAS - District> County= prevalence on oats: NC> Osborne= trace in 1 field. (T. Sim, IV). WISCONSIN - District> County= severity on oats: C> Portage= 2% in 2 fields and EC> Winnebago= infections similar. (O.L. Lovett).

TAN SPOT (*Pyrenophora trichostoma*) - KANSAS - Still 1 of 2 most common foliar wheat pathogens found in almost every field surveyed. (T. Sim, IV).

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus (Bipolaris) carbonum*) - WISCONSIN - Area> status of *Bipolaris zicola* stage on oats: SC> most common disease. (O.L. Lovett).

HALO BLIGHT (*Pseudomonas coronafaciens*) - WISCONSIN - Continued to develop on oats. (O.L. Lovett).

BARLEY YELLOW DWARF VIRUS - KANSAS - Status on oats (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
EC> Geary	10	milk
C> Saline	1-20	milk
NW> Norton	trace	milk

ILLINOIS - District> County= barley yellow dwarf virus prevalence on wheat [host stage] in number of commercial fields (f) week of June 9: SE> Hamilton, White, Gallatin, Saline, Pope, Massac, and Franklin= trace to 1% [early to middough] in 7f; SW> Perry, Jackson, Randolph, Monroe, and St. Clair= trace [late milk to middough] in 5f; WSW> Madison, Bond, Montgomery, and Christian= trace [milk to late milk] in 4f; and C> Macon= trace [late milk] in 1f. (E.G. Jordan). WISCONSIN - Area> status on oats: Central Sands> light. (O.L. Lovett).

INSECTS

ARMYWORM (*Pseudaletia unipuncta*) - OKLAHOMA - Infestations on wheat virtually disappeared in all areas due to plant maturity, pupation, and controls. Heavy beard clipping in many areas but head clipping rare. (D.C. Arnold). WISCONSIN - District> County= status on oats: SW> Grant= half-grown larvae 1 per 50 sweeps, trace populations on oats at this time of year not uncommon. Adult catches in blacklight traps increased in some areas. (O.L. Lovett). MARYLAND - District> County= status on small grains week ending June 13: Eastern Shore area> populations still well below normal, and NC> Frederick and Montgomery= infestations moderate, 10-20% on 80.9 ha. (R. Hochmuth, J.L. Hellman).

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - WISCONSIN - Adults heavy in many blacklight traps. District> County= adults on oats: Central Sands area> and SW> Sauk= in Spring Green area in latter county. (O.L. Lovett).

HESSIAN FLY (Mayetiola destructor) - NEW YORK - District> County= adults on wheat week of June 12: W> Seneca= in many fields. (B. Brown).

ENGLISH GRAIN APHID (Macrosiphum avenae) - OHIO - Counts on small grains June 10 (R. Wadleigh):

District> County	Nymphs and adults	Host	Host stage
WC> Logan	0.86 per sweep	winter wheat	watery ripe
WC> Auglaize	0.35 per stem	spring oats	last ligule just visible to ear swollen but not yet visible
NW> Allen	0.16 per sweep	winter wheat	watery ripe
NW> Allen	0.65 per stem	spring oats	last ligule just visible to ear swollen but not yet visible
NW> Putnam	0.49 per sweep	winter wheat	watery ripe
NW> Putnam	0.28 per sweep	winter rye	milky ripe

ASTER LEAFHOPPER (Macrosteles fascifrons) - WISCONSIN - Populations on oats similar to last period. Sweep counts in eastern quarter of State one-fourth to one-third of those in western area. (O.L. Lovett).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - IDAHO - District> County= larvae per sweep of alfalfa June 10-16: SW> Canyon= 30-45 at Caldwell and N> Idaho= 40-50 near White Bird. (C.R. Baird et al.). OKLAHOMA - District> County= larvae range (average) on alfalfa terminals week ending June 13: SW> Kiowa, Jackson, and Harmon= 0-8% (2.4%) in 21 fields. (D.C. Arnold). MISSOURI - Area> larvae on alfalfa: NC> light, 2-8 per sweep in 3 fields. (R.E. Munson).

WISCONSIN - Alfalfa weevil tip feeding increased week ending May 30 due to more larvae in final, most destructive instar. Pupation began week ending June 6 in southern counties, gradual decrease should be noticeable in near future. Tip feeding more noticeable in SW, SC, C, and WC areas, especially on alfalfa in hard bud to early blossom stages, severe enough to harvest or treat in several fields in first 3 areas. District> County= percent tip feeding: SW> Grant, SC> Green, and Dane= 90-100%; NW> Polk= 50%; C> Waushara= 40% in several fields; NW> Barron, WC> Jackson, St. Croix, and C> Wood= 30%; averaged about 20% in most fields in surveyed area in counties mentioned above, heavier percentages appear to be exceptions. SW> Grant and SC> Green= pupal presence indicates larvae will start to decrease shortly but feeding damage will be more noticeable as larvae near full growth, "frosted" damage caused by fully grown larvae feeding in above counties. SC> Dane= compared with levels for about same day and degree-days in 1979, larvae per sweep in 1980 reduced 75%, larvae per 30 tips reduced 80%, and percent tips damaged reduced 55% in 1 field in southern area.

Wisconsin - Alfalfa weevil week ending June 6: SC> Dane and SW> Grant= Bathyplectes curculionis (an ichneumonid wasp) parasitism where weevil populations heavy. Grant and SC> Green= probably Entomophthora phytonomi (an insect

fungus) noted in fields. Degree-day accumulations (base 8.9°C) for alfalfa weevil March 1 to June 4: SC> Dane= 308 at Madison, SE> Washington= 297 at Hartford, EC> Outagamie= 326 at Appleton, C> Wood= 324 at Marshfield, WC> Dunn= 387 at Menomonie, NW> Washburn= 357 at Spooner, and SW> Grant= 351 at Lancaster.

Wisconsin - Alfalfa weevil counts and fresh feeding decreased greatly week ending June 13 except in northeastern area. Rapid population decline due to larval pupation, disease, and parasitism. Weevil threat over for 1980 season in southern one-third of State. Status on alfalfa week ending June 13: Southern one-third of State> expected skeletonizing damage by 4th instar larvae did not appear in many unharvested fields, many tips with "shothole" damage had few larvae remaining, and NE> Oconto and EC> Door= tip damage heavy on first growth, 60+% in former county and 100% in many fields in latter county.

Wisconsin - Current alfalfa weevil status on alfalfa: EC> Door and portions of adjacent counties= tip feeding 70-100% due to heavy larval counts on first growth alfalfa, "frost" damage noticeable from road in few instances, pupae and diseased larvae in several fields, Door= many larvae in regrowth hatched since first harvest; NW> Barron= populations heavy on first growth in western area; Washburn= activity heavy in some early cut fields in Spooner area; and WC area> several regrowth fields reached 10% feeding threshold for treatment but 4th instar larvae scarce. (O.L. Lovett).

NEW YORK - Area> alfalfa weevil larval status by May 29: Statewide except in coldest areas> 1st or 2nd instars peaked (3rd or 4th instars in warmer areas); 4th instars will peak in most areas by June 19. (Helgesen).

ALFALFA LOOPER (*Autographa californica*) - IDAHO - District> County= larvae per sweep of alfalfa June 10-16: SW> Canyon= 2-4 at Caldwell and N> Idaho= 40-50 near White Bird. (C.R. Baird et al.).

APHIDS (*Acyrtosiphon* spp.) - WASHINGTON - District> County= PEA APHID (*Acyrtosiphon pisum*) counts per sweep of forage legumes June 13: SE> Walla Walla= up to 20, generally light in Touchet and Lowden areas since prebloom treatments in May. (C. Johansen). NEVADA - District> County= *Acyrtosiphon pisum* and mostly BLUE ALFALFA APHID (*Acyrtosiphon kondoi*) per sweep of seed alfalfa June 17: W> Humboldt= 5.7-27.5 at Jungo. (L. Stitt). ARIZONA - District> County= *Acyrtosiphon pisum* nymphs and adults per 100 sweeps of alfalfa: SW> Yuma= 900-1,900 and C> Pinal= 14. (P. Gomez et al.).

OKLAHOMA - District> County= *Acyrtosiphon pisum* and *Acyrtosiphon kondoi* per 10 sweeps of alfalfa June 3-9: Panhandle> Beaver, Harper, Ellis, NC> Woods, Woodward, Major, Alfalfa, Grant, C> McClain, Cleveland, Oklahoma, WC> Custer, SC> Garvin, Murray, and Stephens= 1-150, blue alfalfa aphid 0-10% of population in most fields but up to 92% in Grant= and averaged 15% in all fields checked; SW> Jackson, Harmon, and Kiowa= mostly pea aphid 0-25 (averaged 4.5) in 21 fields. (D.C. Arnold).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: SW> Yuma= 0-150. (P. Gomez et al.). OKLAHOMA - Area> status on alfalfa week ending June 13: Western one-half of State> usually present but almost always only in light numbers. (D.C. Arnold).

POTATO LEAFHOPPER (*Empoasca fabae*) - MISSOURI - Area> nymphs and adults per sweep of alfalfa: NC> light to moderate, 0-8 (average 2.2). (R.E. Munson).

KENTUCKY - Potato leafhopper populations increased rapidly. District> County= status on forage legumes week ending June 13: Midwestern> Christian= averaged 2 per sweep in 1 newly seeded 8.1-ha field, yellowing very evident, and Blue-grass> Anderson= 1 field exceeded economic threshold with rapidly increasing populations. Many fields reached economic thresholds but many fields near harvest week ending June 20, severe problems may occur on regrowth after harvest. (P.E. Sloderbeck et al.).

WISCONSIN - District> County= potato leafhoppers per 50 sweeps of alfalfa: WC> La Crosse, Trempealeau, and SW> Sauk= averaged 3 in La Crosse, Trempealeau, and Spring Green areas, respectively. (O.L. Lovett). VIRGINIA - Adult averages per 10 sweeps of alfalfa June 12: N> Shenandoah= 4.1, Rockingham= 6.2, W> Rockbridge= 4 (J.M. Luna), and S> Franklin= 1.7 (G.L. Clement).

NEW YORK - First adults of season. District> County= potato leafhopper adults on forage June 4: W> Wayne= near Newark (Henderson et al.) and S> Tompkins= at Freeville (Helgesen).

LYGUS BUGS (*Lygus* spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: C> Maricopa= 6-8 and 10-40, Pinal= 47-300 and 72-160, and SW> Yuma 10 and 20-400. (P. Gomez et al.). NEVADA - District> County= nymphs and adults per sweep of seed alfalfa June 17: W> Humboldt= 0-0.1 and 0-0.4 at Jungo. (L. Stitt).

MEADOW SPITTLEBUG (*Philaeus spumarius*) - VIRGINIA - District> County= adult averages per 10 sweeps of alfalfa June 12: N> Shenandoah= 37.4, Rockingham= 17.1, W> Rockbridge= 12.5 (J.M. Luna) and S> Franklin= 3.6 (G.L. Clement).

ALFALFA SEED CHALCID (*Bruchophagus rodidi*) - NEVADA - First adults of season. District> County= adults on seed alfalfa week ending June 20: W> Humboldt= at Jungo. (L. Stitt).

BROWN WHEAT MITE (*Petrobia latens*) - NEVADA - District> County= status on seed alfalfa week ending June 20: W> Humboldt= increased since first cleanup spray applied at Jungo. (L. Stitt).

SOYBEANS

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - KENTUCKY - District> County= status on soybeans June 13: C> Meade= egg laying began, few small larvae present, adults heavy in early planted field but much less abundant in late-planted fields. (K.V. Yeargan, L.H. Townsend). OHIO - District> County= status on soybeans [fully developed trifoliolate leaf at first node above unifoliolate node to 3 nodes on main stem beginning with unifoliolate node] June 9: WC> Logan= scattered adults feeding, damaged leaves difficult to find. (R. Wadleigh). MARYLAND - Area> status on soybeans [first trifoliolate leaf] week ending June 13: Central Eastern Shore> heaviest, adults averaged 2-3 per 0.3 row m and northern Eastern Shore> much lighter, adults averaged 1 per 4.6 row m. (R. Hochmuth).

SOYBEAN THRIPS (*Sericothrips variabilis*) - KENTUCKY - Area> status on soybeans week ending June 13: Throughout much of State> heavy, some feeding damage expected to outgrow damage unless severe drought develops; week ending June 20: Throughout much of State> continued to be observed, no severe problems reported. (P.E. Sloderbeck).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - OKLAHOMA - District> County= adults in number of pheromone traps week ending June 13: SW> Jackson= 31 in 82; Harmon= 10 in 10; Kiowa= 5 in 25; and WC> Washita, SW> Caddo, Cotton, Comanche, Greer, and Tillman= 0 in 91. (D.C. Arnold).

SUGAR BEETS

INSECTS

BEET LEAFMINER (*Pegomya hyoscyami*) - COLORADO - District> County= eggs on sugar beet leaves: N> Larimer= on up to 60% of plants. (W.M. Hantsbarger).

POTATOES, TOMATOES, PEPPERS

DISEASES

RHIZOCTONIA STEM CANKER (*Rhizoctonia solani*) - WISCONSIN - Area> status on potatoes week ending May 23: Central Sands> began to appear in some fields, also on seed pieces. Sunken, brown areas on underground stem. (O.L. Lovett).

POTATO EARLY BLIGHT (*Alternaria solani*) - WISCONSIN - First of season. District> County= status on potatoes: C> Waushara= noted in Hancock area and Central Sands area> started to appear in fields. (O.L. Lovett).

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - COLORADO - District> County= eggs, larvae, and adults on early potatoes June 4-10: N> Larimer= common. (W.D. Fronk). OHIO - District> County= status June 6-12: NW> Putnam= larvae 7 per potato [bloom] plant in garden; WC> Hardin= 1-5 per potato [bloom] plant (R. Wadleigh); and Champaign= adults 7 or more per 4.6 row m of commercial potatoes, larvae feeding heavily (E.C. Wittmeyer); and NE> Wayne= 2nd instar larvae on tomatoes (G. Walker).

A CHRYSOMELID BEETLE (*Psylliodes affinis*) - NEW YORK - New county record. District> County= collection data: S> Tompkins= from *Solanum dulcamara* (bitter nightshade) at Ithaca, May 18, 1980, by A.G. Wheeler and E.R. Hoebeke. Also from this host at Ithaca, May 19 and 25, and at Enfield, May 20; from *Solanum nigrum* (black nightshade) at Ithaca, May 18 and 25, and at Ludlowville, May 27. AT determined by E.R. Hoebeke. (E.R. Hoebeke).

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - WISCONSIN - Adults heavy in many blacklight traps. District> County= status on potatoes: Central Sands area> and SW> Sauk= adults in Spring Green area in latter county, treatment applied in Central Sands area. (O.L. Lovett).

POTATO LEAFHOPPER (*Empoasca fabae*) - WISCONSIN - District> County= adults per 20 sweeps of potatoes: SW> Sauk= 1 in Spring Green area. (O.L. Lovett).

DECIDUOUS FRUITS AND NUTS

DISEASES

CEDAR-APPLE RUST (*Gymnosporangium juniperi-virginianae*) - WISCONSIN - Area> status on redcedar and juniper week ending May 23: S> spore horns began developing from galls. (O.L. Lovett).

APPLE SCAB (*Venturia inaequalis*) - WISCONSIN - District> County= status on flowering crabapple week ending May 30: SE> Washington and SC> Dane= disease developing. (O.L. Lovett).

FIRE BLIGHT (*Erwinia amylovora*) - WASHINGTON - Area> status on apple June 12: E> infected many trees. (O. Maloy). WISCONSIN - District> County= status on susceptible apple cultivars: EC> Fond du Lac, Outagamie, NW> Barron, WC> La Crosse, and C> Wood= infections light. (O.L. Lovett).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - WASHINGTON - District> County= adults in traps: NE> Spokane= 10.9 per trap at Spokane and 1.4 per trap in Green Bluff area June 9 (G. Kupferman), EC> Grant= 12 from 24 traps (averaged 0.5 per trap) in commercial orchards at Royal Slope, Quincy, and Ephrata and 2 from 7 traps at residences at Moses Lake, Ephrata, and Quincy, June 17 (R. Hunter). IDAHO - District> County= males in pheromone traps: N> Latah= 4 June 9, 1 June 11, and 1 June 16 at Moscow. (D.R. Scott).

WISCONSIN - Codling moth adult emergence began week ending May 23, increased rapidly due to warm conditions. Adult averages lower in 1980 than in past few years. District> County= adults in pheromone traps week ending May 30: SC> Dane= first caught at 1 site May 22, and 25 caught by May 28 in northern area. Trap counts in orchards May 17-28: SW> Richland= 27, SC> Dane= 11 in 1 trap and 12 in another, EC> Fond du Lac= 1, and SW> Crawford= 2.5; May 24 to June 2: NC> Lincoln= 0, SW> Richland= 2, Crawford= 3, and SC> Dane= 3 in 1 trap and 23 in another; June 2-18: SW> Crawford= 1, Richland= 1, Sauk= 5, SC> Dane= 3 in 1 trap and 16 in another, EC> Fond du Lac= 0.6, Manitowoc= 2, C> Wood= 1, NC> Lincoln= 10, and NW> Barron= 0, 0, and 6 in 1 trap each. (O.L. Lovett). OHIO - District> County= adults in 2 pheromone traps June 7-9: NE> Wayne= 14. (F. Hall).

REDBANDED LEAFROLLER (*Argyrotaenia velutinana*) - WISCONSIN - Adults few in pheromone traps. District> County= status on apples: C> Wood and NE> Forest= leafrolling noted, infestation 3% in latter county. (O.L. Lovett).

OBLIQUEBANDED LEAFROLLER (*Choristoneura rosaceana*) - NEW YORK - District> County= status: W> Wayne= first pheromone trap catch in western area, June 9 (Richardson, Way) and Ontario= first trap catch at Geneva June 14 (J. Leeper).

PEACH TWIG BORER (*Anarsia lineatella*) - COLORADO - District> County= adults in pheromone traps per day: Western Slope> Delta= 0-1. (A.D. Bulla).

APPLE MAGGOT (*Rhagoletis pomonella*) - WISCONSIN - District> County= trap counts in orchards May 17-28: SW> Richland, Crawford, SC> Dane (2 traps), and EC> Fond du Lac= none; May 24 to June 2: NC> Lincoln, SW> Richland, Crawford, and SC> Dane (2 traps)= 0; June 2-18: SW> Crawford= 0, Richland= 0, Sauk= 25, SC> Dane (2 traps), EC> Fond du Lac, Manitowoc, C> Wood, NC> Lincoln, and NW> Barron (3 traps)= 0. (O.L. Lovett).

CHERRY FRUIT FLY (*Rhagoletis cingulata*) - NEW YORK - District> County= status on fruit trees June 13: W> Wayne= first emergence observed. (Richardson, Way).

PEAR PSYLLA (*Psylla pyricola*) - COLORADO - District> County= status on pears: Western Slope> Mesa, Delta, and Montrose= all stages in orchards where earlier controls not used. (A.D. Bulla). NEW YORK - District> County= first nymphs of second brood June 10: SE> Columbia= observed near Livingston. (Conklin).

WHITE APPLE LEAFHOPPER (*Typhlocyba pomaria*) - COLORADO - District> County= counts per leaf on apples: Western Slope> Delta= 1-5 in orchards. (A.D. Bulla).

SAN JOSE SCALE (*Quadraspidiotus perniciosus*) - NEW YORK - District> County= crawler status June 13-14: SE> Ulster= first emerged in Milton area and at Highland. (R. Weires).

EUROPEAN RED MITE (*Panonychus ulmi*) - OHIO - District> County= eggs and motiles per leaf on Red Delicious apple trees June 12: C> Fairfield= 3.3 and 0.8, increased in research orchard. (R.P. Holdsworth).

APPLE RUST MITE (*Aculus schlechtendali*) - OHIO - District> County= motiles per leaf on Red Delicious apple trees June 12: C> Fairfield= 123, increasing although economic densities not reached. (R.P. Holdsworth).

PEAR RUST MITE (*Epitrimerus pyri*) - NEW YORK - Area> status on pears: W> began appearing in orchards. (Richardson, Way).

PECAN NUT CASEBEARER (*Acrobasis nuxvorella*) - OKLAHOMA - District> County= status on pecans: NE> Tulsa= 6% infested (all white eggs) in Bixby area June 7, NC> Kay= 11% infested (2 white eggs, 1 pink, and 8 hatched) in Ponca City area, and NE> Washington= light to moderate. (D.C. Arnold).

BLACKMARGINED APHID (*Monellia caryella*) - ARIZONA - District> County= nymphs and adults per 100 leaves of pecans: SE> Pima= 150-300 at Sahuarita. (L. Eiland). NEW MEXICO - District> County= status on pecans week ending June 20: SE> Dona Ana= infestations heavy on untreated trees in orchards and home plantings, honeydew nuisance beneath trees in home plantings in Las Cruces area. (G. Nielsen).

BLACK PECAN APHID (*Tinocallis caryaefoliae*) - NEW MEXICO - District> County= status on pecans week ending June 20: SE> Dona Ana= infestations heavy on untreated trees in orchard and home plantings, honeydew nuisance beneath trees in home plantings in Las Cruces area. (G. Nielsen).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

AN ICHNEUMONID WASP (*Bathyplectes curculionis*) - OKLAHOMA - Statewide average of 87.8% compared with 85.5% during same period in 1979. District> County= percent parasitized *Hypera postica* (alfalfa weevil) larvae from May 8 to June 4: Panhandle> Beaver= 95%, Harper= 93%, NC> Major= 65%, Woods= 82%, Alfalfa= 88%, Woodward= 81%, Kay= 78%, Noble= 19%, C> Payne= 94%, Grady= 72%, Pottawatomie= 95%, McClain= 97%, Cleveland= 91%, Lincoln= 87%, Canadian= 95%, Creek= 98%, NE> Tulsa= 93%, Washington= 96%, WC> Washita= 76%, SW> Caddo= 88%, Kiowa= 29%, Jackson= 99%, Comanche= 93%, Greer= 98%, EC> Muskogee= 99%, SC> Carter= 76%, Garvin= 98%, Stephens= 99%, and Murray= 95%. (D.C. Arnold).

ALKALI BEE (*Nomia melanderi*) - WASHINGTON - District> County= nest tunnels per 0.09 sq m June 13: SE> Walla Walla= females dug up to 6 new tunnels in Touchet and Lowden areas. (C. Johansen).

FEDERAL AND STATE PROGRAMS

INSECTS

CEREAL LEAF BEETLE (*Oulema melanopus*) - OHIO - District> County= counts per sweep of small grains [host stage] June 10: WC> Auglaize= pupae trace (0.02) [last ligule just visible to ear swollen but not yet visible] on spring oats, NW> Allen= adults 1 [last ligule just visible to ear swollen but not yet visible] on spring-sown oats, none caught in 100 sweeps, WC> Logan on winter wheat [watery ripe], NW> Allen on winter wheat [watery ripe], and Putnam on winter wheat [watery ripe], winter rye [milky ripe], and spring-sown oats [leaf sheaths strongly erected]= none collected. (R. Wadleigh). MARYLAND - Area> status on small grains week ending June 13: C and Eastern Shore> decreased throughout areas, damage seems to be worse on wheat than on oats. (J.L. Hellman, R. Hochmuth).

GRASSHOPPERS - IDAHO - District> County= *Melanoplus sanguinipes* nymphs per 0.8 sq m of turf, pastures, and rangeland June 16: N> Idaho= mostly 2nd instars 2-4 at White Bird, Pittsburgh Landing, Riggins, and Lucile. (E.F. Mink, H.W. Homan). NEVADA - District> County= *Melanoplus sanguinipes* per 0.8 sq m of rangeland week ending June 20: NE> Eureka= 2nd and 3rd instar nymphs averaged 50 on 1,700 ha at Dunphy, and W> Humboldt= this species and *Oedaleonotus enigma enigma* 9-38 (average 15) on unspecified hectares in Grass Valley. (D. Kall).

ARIZONA - District> County= *Melanoplus* spp. nymphs and adults per 100 sweeps of cotton: C> Maricopa= 4 and 11. (L. Blackledge et al.).

OKLAHOMA - District> County= grasshopper status week ending June 13: NC> Major= damaged garden, NE> Washington= light to moderate in gardens and pastures, SW> Jackson, Kiowa, and Harmon= 0-6 per 0.8 sq m of alfalfa with few fields treated, SC> Bryan= moderate in pastures and gardens, and Coal= heavy in pastures, gardens, and crops. (D.C. Arnold). NORTH DAKOTA - District> County= grasshopper status June 4: SC> Burleigh= egg pods desiccated due to drought in State, showers intermittent since then. Desiccation of egg pods enough to reduce potential infestations. (C.G. Scholl).

JAPANESE BEETLE (*Popillia japonica*) - KENTUCKY - First adults of season. District> County= larval status week ending June 13: Bluegrass> Fayette= damage severe to turf and fairway on golf course at Lexington past few weeks, pupated (D.A. Potter); adults June 17: Clark= reported on turf. (L. Conn).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= status on cotton: C> Maricopa= larvae 1-5 per 100 sweeps and SW> Yuma= 5.6-12% of bolls infested. Adults per pheromone trap per day: C> Maricopa= 3-27, Pinal= 5, and SW> Yuma= 4-73. (R. Miller et al.).

DETECTION

NEW COUNTY RECORD

INSECTS

A CHRYSOMELID BEETLE (*Psylliodes affinis*) - NEW YORK - Tompkins. (p. 418).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAW	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
CALIFORNIA																			
	14-35		B	30	2	12												2	
Belleta	6/14-20		B	58	1	9												4	
Manteca	6/14-20																		
FLORIDA																			
Gainesville	6/12-18		B		1						1	28							2
KENTUCKY																			
Hopkinsville	6/11-16		B	0		0				21									
Lexington	6/11-17		B	80		11				27									
Christian Co.	6/11-17	4P				0				0	0								
Fayette Co.	6/11-17	2P				1				1	0								
MINNESOTA																			
Fergus Falls	6/12-16	34.3	B	1						1								11	
Lamberton	6/12-16	12.4	B	11			2			1								1	
NEBRASKA																			
Aurora	6/12-18		B	3523	1094	248	8			1610						1		8	1
Clay Center	6/13-19		B	56		41	38			1429									
OHIO (Counties)																			
Huron	6/9-16		B	0		1	0			0								0	
Wayne	6/12-18	2B		105		0	0			32								6	
SOUTH CAROLINA (Averages)																			
Long Creek	6/6-12	P							1.1						2.4				
Mountain Rest	6/6-12	P							0.4						5.7				
TENNESSEE																			
Franklin	6/13-20	B		31		12	2				3						2		7
Maury	6/13-20	B		48		6	4												2
VIRGINIA																			
Bedford	6/1-7	B								338									
Painter	6/1-7	B		611		328				7					3	1		10	
																			0

TRAP COLLECTIONS

	°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
WISCONSIN																				
Mazomanie 6/11-17			B			17	1				43								0	
Racine 6/10-16			B			11	0				23								2	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	Lr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	RmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	SbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
						ToB	Tobacco Budworm		

PESTS NOT KNOWN TO OCCUR IN THE UNITED STATES
Or
Of Limited Distribution

AN ALLECULID BEETLE
Omophlus lepturoides (Fabricius)

Coleoptera: Alleculidae

CONTRIBUTED BY: T.J. Spilman 1/

ECONOMIC IMPORTANCE

In Europe, adults feed on flowers of many plants. In Bulgaria, they greatly damage cole crops, grapes, grain, and late-blooming fruit trees. Potato tuber damage is often so great that complete fields can be totally destroyed. In Sicily, flowers of olive trees have been destroyed, preventing fruit or seed development. Adults infest the leaves of many plants causing secondary damage. Larvae damage the roots of vegetables, wheat, and alfalfa.

HOSTS

This beetle feeds on many hosts. The literature cites about 85 wild and cultivated hosts spanning many plant families. Crop hosts include Avena sativa (oat), Beta vulgaris (beet and sugar beet), Brassica rapa (turnip), Citrullus lanatus (watermelon), Cucurbita pepo (pumpkin), Glycine max (soybean), Helianthus annuus (sunflower), Hordeum spp. (barley), Juglans regia (English walnut), Medicago sativa (alfalfa), Morus alba (white mulberry), Morus nigra (black mulberry), Olea europaea (olive), Pastinaca sativa (parsnip), Phaseolus vulgaris (bean), Prunus armeniaca (apricot), Prunus avium (sweet cherry), Prunus cerasus (sour cherry), Prunus domestica (garden plum), Prunus persica (peach), Secale cereale (rye), Solanum tuberosum (potato), Triticum aestivum (wheat), Vitis monticola (mountain grape), Vitis vinifera (wine grape), Zea mays (corn).

Other hosts include Abies alba (silver fir), Acer tataricum (tatarian maple), Cornus mas (cornelian cherry), Cornus sanguinea (blood-twig dogwood), Cotinus coggygria (common smoke-tree), Crataegus laevigata (English hawthorn), Cupressus sempervirens (Italian cypress), Fraxinus excelsior (European ash), Pinus nigra (Austrian pine), Pinus sylvestris (Scotch pine), Robinia pseudoacacia (black locust), Sambucus nigra (European elder).

CHARACTERISTIC DAMAGE

Adults damage host flowers by chewing holes and completely destroying the blossoms. They also feed on leaves and petals, but prefer anthers. Larvae damage roots by cutting and chewing holes. Plants may lose vigor or die.

DETECTION NOTES

1. Look for damaged blossoms and collect adults.
2. Dig around suspect plants. Check for larvae.
3. Submit in 70% alcohol for identification.

1/Systematic Entomology Laboratory, IIBIII, Agricultural Research, Science and Education Administration (SEA), USDA.

CHARACTERS

ADULT (fig. 1) - Like all Alleculidae, the tarsal formula is 5-5-4, tarsal claws comblike (fig. 2), and the prothoracic coxal cavities closed posteriorly. Black except elytra brownish yellow. Length 13-15 mm. Head moderately shiny with dense coarse punctures and long setae. Eyes slightly emarginate anteriorly. Antennae long and not clubbed extending to third or half of elytra. Pronotum with equal anterior and posterior width, corners rounded, lateral borders evenly rounded in dorsal view and turned upward; surface shiny with depression laterally, fine punctures and long setae. Elytra with vague striae, and small transverse wrinkles, densely punctate, without setae. Legs slender, tarsi without lobes; males with appendage on each inner claw. Ventral surface with long dense setae.



Fig. 1. *Omophlus lepturoides* (F.) adult from Balachowsky 1962, with permission

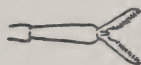


Fig. 2. Adult, tarsal claw, female

EGG - Length 1.2 by 0.3 mm, white, oblong.

LARVA - Maximum length 30 mm. Body elongate, cylindrical, wireworm-like (fig. 3). Head globular, mouth directed almost ventrally. Body smooth with very few setae. No suture between terga and sterna on abdominal segments; apex of last segment broadly blunt, with 2 small curved dorsal hooks (fig. 4). Prothoracic legs (fig. 5) much larger than meso and meta-thoracic legs (fig. 6).

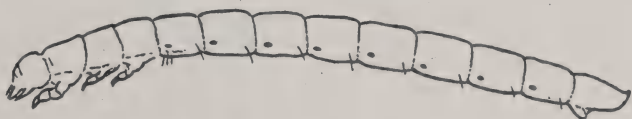


Fig. 3. Larva, lateral view



Fig. 4. Larva, last abdominal segment, dorsal view



Fig. 5. Larva, prothoracic leg

PUPA - Abdominal segments have wide tubercle bearing process on each side.



Fig. 6. Larva, mesothoracic leg



GENERAL DISTRIBUTION OF OMOPHLUS LEPTUROIDES

Southern Europe and Southwest Asia. Austria, Balkan Peninsula, Bulgaria, Czechoslovakia, southern France and Germany, Greece, Hungary, Italy, Poland, Portugal, Spain, Turkey, Yugoslavia, southern Soviet Union (from the Ukraine to the Caucasus).

BIOLOGY

In Yugoslavia, during the first 20 days of May, the female lays as many as 200-300 eggs, at a soil depth of 8-10 cm. After 15-20 days larvae emerge and begin eating plant detritus. After a few moults they move into the soil, feeding on subterranean parts of living plants, such as alfalfa and potatoes. Larvae grow to about 30 mm long, passing through 8 instars, during summer and autumn, then burrow about 50 cm into the soil, cease feeding, and overwinter. In spring, they return near the surface to feed until pupation occurs in mid-April in oval earthen cells 8-12 cm deep. After 10 days the adult emerges and digs to the surface, usually coinciding with the flowering of many plants.

In Bulgaria, a longer life cycle was recorded as follows: Adult, May--July 1955; egg, June--July 1955; larva, June 1955--June 1957; pupa, May--June 1957. Note the 2-year period spent in the larval stage.

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U.S. Dep. Agric.
Coop. Plant Pest Rep.
5(22):424-426, 1980

No. 11 of Series

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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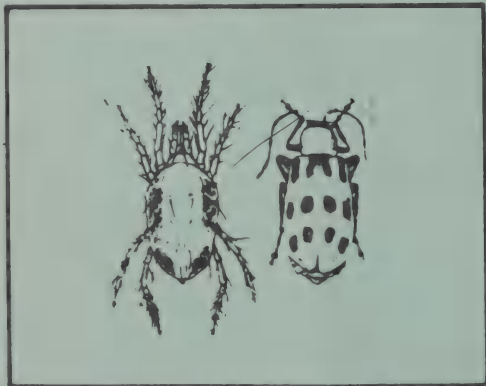
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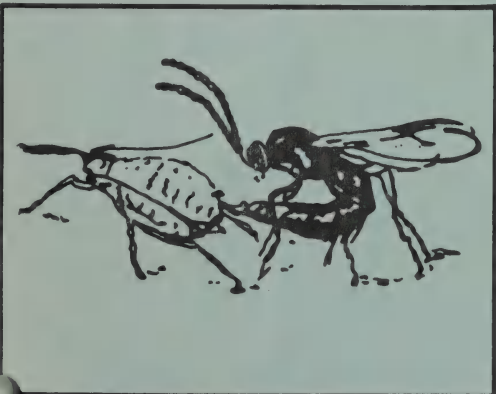
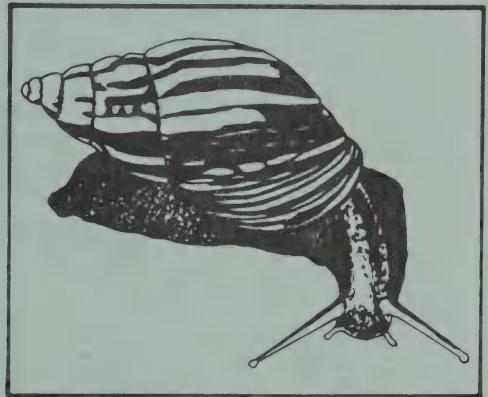
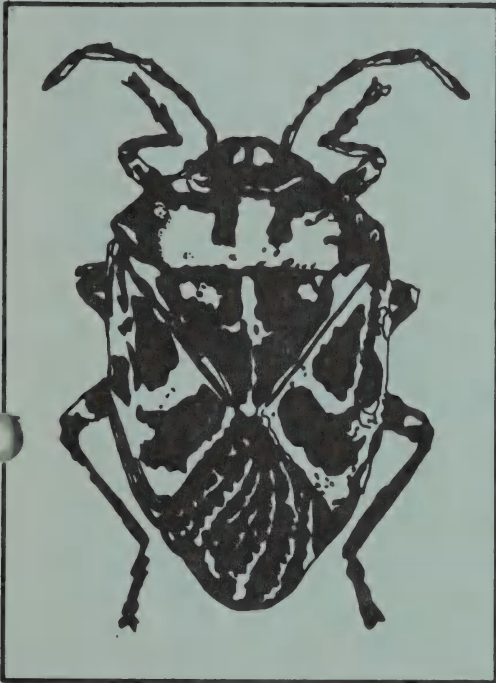
Plant Protection
and Quarantine

Cooperative Plant Pest Report

July 4, 1980

Vol. 5

No. 23



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

SUGARCANE RUST more apparent on sugarcane in area of Florida. (p. 429).

FALL ARMYWORM could exceed threshold level on corn in July in North Carolina. (p. 431).

Larvae of a NOCTUID MOTH expanding its range on corn in New York. (p. 431).

SORGHUM MIDGE heavy on sorghum in Lower Rio Grande Valley and Gulf Coast areas of Texas. (p. 432).

POTATO LEAFHOPPER and dry soil conditions caused poor regrowth of forage legumes in Kentucky. This leafhopper expected to steadily increase in Maryland. (p. 435).

MEXICAN BEAN BEETLE heavy on young soybeans in parts of Maryland. Similar or heavier counts in area of Virginia. (p. 436).

Detection

First larval infestation of MEDITERRANEAN FRUIT FLY in California since eradication in 1976. (p. 443-444).

PINEWOOD NEMATODE is new for Wisconsin. (p. 440).

New county record on page 444.

Some First Occurrences of the Season

MAIZE DWARF MOSAIC VIRUS in Missouri. CORN EARWORM adults in Maryland and New York. BOLLWORM adults on cotton in South Carolina. COTTON FLEAHOPPER on cotton and TOBACCO HORNWORM on tomatoes in Oklahoma. SAN JOSE SCALE crawlers in New York. WHEAT STEM RUST in Texas.

Reports in this issue are for the week ending June 13 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON SMUT (Ustilago maydis) - INDIANA - Survey on corn June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
WC> Montgomery	not seen	early whorl
WC> Parke	not seen	early whorl
WC> Clay	not seen	early whorl
WC> Owen	not seen	early whorl
SW> Daviess	trace	midwhorl
SW> Knox	not seen	midwhorl
SW> Gibson	not seen	midwhorl
SW> Posey	not seen	midwhorl
SW> Dubois	not seen	early whorl
SW> Martin	not seen	midwhorl
SC> Lawrence	not seen	midwhorl
C> Morgan	not seen	midwhorl

WEST VIRGINIA - District> County= common smut prevalence on corn [2 leaves] June 18: E> Greenbrier= less than 1%. (J.D. Hacker, G.L. Clement).

COMMON MAIZE RUST (Puccinia sorghi) - INDIANA - Survey on corn June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Montgomery	not seen	not seen	early whorl
WC> Parke	not seen	not seen	early whorl
WC> Clay	not seen	not seen	early whorl
WC> Owen	not seen	not seen	early whorl
SW> Daviess	trace	trace	midwhorl
SW> Knox	not seen	not seen	midwhorl
SW> Gibson	not seen	not seen	midwhorl
SW> Posey	not seen	not seen	midwhorl
SW> Dubois	not seen	not seen	early whorl
SW> Martin	not seen	not seen	midwhorl
SC> Lawrence	not seen	not seen	midwhorl
C> Morgan	not seen	not seen	midwhorl

SUGARCANE RUST (Puccinia melanocephala) - FLORIDA - Area> prevalence on sugarcane week of June 12: Okeechobee> more and more apparent on sugarcane, particularly noticeable on 'CL 41-223', variety represents about 8.5% of hectares, 15% yield reduction expected. (J. Miller).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - INDIANA - Most prevalent disease on seedling corn in southwestern area. Survey on corn leaves June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Montgomery	not seen	not seen	early whorl
WC> Parke	not seen	not seen	early whorl
WC> Clay	6	10	early whorl

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Owen	9	5	early whorl
SW> Daviess	not seen	not seen	midwhorl
SW> Knox	not seen	not seen	midwhorl
SW> Gibson	not seen	not seen	midwhorl
SW> Posey	not seen	not seen	midwhorl
SW> Dubois	not seen	not seen	early whorl
SW> Martin	trace	trace	midwhorl
SC> Lawrence	33	1	midwhorl
C> Morgan	not seen	not seen	midwhorl

STEWART'S WILT (*Erwinia stewartii*) - INDIANA - Noted in popcorn field, not seen on field corn, in survey June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Montgomery	not seen	not seen	early whorl
WC> Parke	not seen	not seen	early whorl
WC> Clay	not seen	not seen	early whorl
WC> Owen	not seen	not seen	early whorl
SW> Daviess	not seen	not seen	midwhorl
SW> Knox	not seen	not seen	midwhorl
SW> Gibson	not seen	not seen	midwhorl
SW> Posey	not seen	not seen	midwhorl
SW> Dubois	9	8	early whorl
SW> Martin	not seen	not seen	midwhorl
SC> Lawrence	not seen	not seen	midwhorl
C> Morgan	not seen	not seen	midwhorl

MAIZE DWARF MOSAIC VIRUS - MISSOURI - First of season. District> County= status on sweet corn [20-23 cm tall] June 23: C> Boone= in 'Golden Bantam' monitoring plot at Columbia. Confirmed through serology - double diffusion. Johnsongrass in area. (A. Foudin). INDIANA - Survey on corn June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
WC> Montgomery	not seen	early whorl
WC> Parke	not seen	early whorl
WC> Clay	not seen	early whorl
WC> Owen	not seen	early whorl
SW> Daviess	not seen	midwhorl
SW> Knox	not seen	midwhorl
SW> Gibson	not seen	midwhorl
SW> Posey	not seen	midwhorl
SW> Dubois	not seen	early whorl
SW> Martin	trace	midwhorl
SC> Lawrence	not seen	midwhorl
C> Morgan	not seen	midwhorl

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - MINNESOTA - 'Shotholing' by 1st and 2nd instar larvae noted mostly in marginal rows of field corn. Estimated time for first brood controls (500 heat units, base 10°C) past or will be finished by next period. (D.D. Sreenivasam).

WISCONSIN - European corn borer adults still heavy in dense foliage over much of area. District> County= status on corn [10-leaf] week ending June 13: SW> Sauk= egg laying in Spring Green area, eggs on about 35% of plants in field near area June 10; Crawford= eggs none in similar fields near Prairie Du Chien; and C> Adams= empty pupal cases 60% and pupae 40% in old stubble near Grand Marsh. Large overwintering larvae outnumbered pupae but all larvae parasitized and will not contribute to adult flights. Besides extensive parasitism by Macrocentrus grandii (a braconid wasp) reported earlier, few cocoons and 1 adult of probably Eriborus terebrans (an ichneumonid wasp) noted. Very little corn advanced enough to be attractive for egg laying, situation will be changing rapidly next 10-14 days. Degree-day accumulations (modified base 10°C) March 1 to June 11: SC> Dane= 359 at Madison, SE> Washington= 348.1 at Hartford, EC> Outagamie= 349.2 at Appleton, C> Wood= 369 at Marshfield, and WC> Dunn= 444 at Menomonie. (O.L. Lovett).

VIRGINIA - District> County= average European corn borer infestation on treated and untreated corn, respectively, June 12: C> Richmond= 1-15% and 4-26% and Westmoreland= 1-3% and 4-8%. (R.M. McPherson et al.). MARYLAND - Infestations remained well below normal for time of year. Area> status on corn week ending June 20: Eastern Shore= average infestations less than 10% with larvae entering later instars and invading stalks, adults decreased to fewer than 5 per night per blacklight trap; and C> catches somewhat heavier, fresh egg laying to continue. Damage still expected to stay below normal even with continued egg laying, because damage less than 20% to date. (R. Hochmuth, Drively). NEW YORK - District> County= small larvae on sweet corn June 23: W> Ontario= heavy on emerging tassels. (C. MacNeil).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status week of June 15: C> St. Johns= adults in pheromone traps near corn and sorghum in Hastings area (R.B. Workman), and Putnam= larvae heavily damaged 2 ha of corn [whorl] on farm near Orange Mills (K. Elliott). NORTH CAROLINA - District> County= status on corn week ending June 20: W area> spot infestations appeared, Central Piedmont> Catawba= larvae 3 cm or longer on 30-40% of plants on 4.0 ha, about 2 weeks earlier this year than State average detection date; Tidewater area and Southern Coastal> Sampson, Bladen, and Robeson= localized infestations. Heaviest infestations expected to develop during late July and August, populations exceeding threshold level could occur in scattered fields in July. (T. Hunt, R. Blalock).

CORN EARWORM (Heliothis zea) - MARYLAND - First adults of season. District> County= adult in blacklight trap: NC> Queen Annes= detected June 14. (R. Hochmuth). NEW YORK - First of season. District> County= adults in blacklight trap: Long Island> Suffolk= first taken June 22. (M. Semel).

ARMYWORM (Pseudaletia unipuncta) - WEST VIRGINIA - District> County= larvae feeding on corn June 9: Jefferson= 1-18%. (C. Stuart).

BLACK CUTWORM (Agrotis ipsilon) - WEST VIRGINIA - Infestations light. District> County= larvae on corn June 18: E> Monroe= infested 5% of seedlings [early whorl] and Summers= averaged 3 per 25 plants [2 leaves] in row. (J.D. Hacker, G.L. Clement).

A NOCTUID MOTH (Hydroecia immanis) - NEW YORK - District> County= larvae on corn week ending June 27: W> Wyoming= found (Tillapaugh), fourth county where corn affected. (H.R. Willson, Sawyer).

STALK BORER (*Papaipema nebris*) - WISCONSIN - District> County= larvae (0.64-1.3 cm) in no-till corn week ending June 13: SW> Crawford= infested 10-15% of plants in spots in 1 field, field contained soybeans and heavy GIANT RAGWEED (*Ambrosia trifida*) growth in 1979. (O.L. Lovett). MARYLAND - No new larval infestations expected. Area> status on corn week ending June 20: Statewide> damage severe in isolated fields this year; most losses in central and western counties, replanting necessary in several fields. (R. Hochmuth).

CORN ROOTWORMS (*Diabrotica* spp.) - MINNESOTA - District> County= larvae on corn: SW and SC areas> mostly 1st and 2nd instars, and SW> Redwood= one early 3rd instar in field corn plots at Lamberton. (D.D. Sreenivasam). WISCONSIN - District> County= percent egg survival in corn week ending June 13: SW> Sauk= 74% in 62 eggs, EC> Outagamie= 100% in 8 eggs, and Fond du Lac= 100% in 5 eggs. Egg sample much smaller than in previous years due to poor conditions at collecting time. Hatch under field conditions far from complete to date. (O.L. Lovett).

CORN FLEA BEETLE (*Chaetocnema pulicaria*) - WEST VIRGINIA - District> County= status on corn June 7: E> Jefferson= damage 2-58%. (C. Stuart).

WIREWORMS - WEST VIRGINIA - District> County= *Melanotus communis* mostly and *Melanotus similis* larvae per 25 corn [2 leaves] plants June 18: E> Summers= averaged 7-12. (J.D. Hacker, G.L. Clement).

SORGHUM MIDGE (*Contarinia sorghicola*) - TEXAS - Populations increased to heavy levels in Lower Rio Grande Valley and Gulf Coast areas. (J.A. Jackman). Status on sorghum June 10-13 (J. Cocke et al.):

District> County	Status
Lower Valley> Hidalgo	15 per head in field at Edinburgh
Gulf Coast area	heavy in many areas
SC> Guadalupe	present

GREENBUG (*Schizaphis graminum*) - TEXAS - Populations generally light on sorghum in all areas reporting. (J.A. Jackman). Status on sorghum June 10-13 (W.E. Buxkemper et al.):

District> County	Status
Blacklands> Hill & Johnson	increased
Blacklands> Ellis & Navarro	light
Northern High Plains> Floyd at South Plains	light
Panhandle area	very light
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	few
Edwards Plateau> Tom Green at San Angelo	light

CHINCH BUG (*Blissus leucopterus leucopterus*) - KENTUCKY - District> County= status on corn week ending June 27: Midwestern> Muhlenberg= nymphs heavy on border rows of small field bordering wheat field. (L.H. Townsend).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) trace throughout KANSAS, May 28 to June 10. Little yield loss expected because of light infection and late appearance. First reported in the Dakotas in south-central SOUTH DAKOTA winter wheat field in late May. Severity trace to 40% on winter wheat varieties throughout southern NEBRASKA and northern Kansas, June 11-24. Less than in 1979 in commercial fields in these areas. Trace in south and west-central MINNESOTA nursery plots. Preliminary results of virulence in various epidemiological areas (X = virulence, 0 = avirulence) (A.P. Roelfs, D. Long):

Area	UN races detected	Virulence for Lr				
		9	19	16	17	24
Mexico, NE	2, 13	X	0	0	0	X
Mexico, C	9, 13, 17	0	0	0		0
Mexico, NW	2, 9	0	0	0	X	0
AL	2, 3, 6	X	0	0	0	0
GA	2, 6	X	0	0		0
FL	2		0	0	0	0
LA	2, 3, 6	X	0	0	0	0
MI	6	X	0	0	0	0
TX	2, 3, 6	X	0	0	0	0

MISSOURI - Area> wheat leaf rust status on wheat [90% turning color, 25% ripe] June 16-20: Most fields> damage light due to slow appearance and limited spread. Very dry conditions during period of optimum disease spread probably responsible for limited severity. (A. Foudin). PENNSYLVANIA - District> County= severity on flag leaf of wheat [early milk] June 12: SE> Lancaster= 10-50% on 'Hart' and less than 1% on 'S-76' on 60 ha (3 commercial farms and research plots) at State university. (D.T. Ware).

STRIPE RUST (*Puccinia striiformis*) on flag leaves of dryland and irrigated wheat in south-central WASHINGTON, May 28 to June 10. (Johnson).

OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) early on oats in WISCONSIN and MINNESOTA, May 28 to June 10, where buckthorn along borders of fields. Trace on oats in southeastern SOUTH DAKOTA, June 11-24; severity expected to remain relatively light with little loss expected, except possibly in very late fields. (A.P. Roelfs, D. Long).

RYE LEAF RUST (*Puccinia recondita* f.sp. *secalis*) found on rye stems in central WISCONSIN and DELAWARE, May 28 to June 10. (Helbig). Moderately severe on lower leaves of rye in trap plots at Rosemount, MINNESOTA, June 11-24. Most likely overwintered there although not previously seen. Rust absent in spring rye trap plots in Minnesota. (A.P. Roelfs, D. Long).

BARLEY LEAF RUST (*Puccinia hordei*) found on mature barley stems in DELAWARE, May 28 to June 10. (Helbig).

For STEM RUSTS on small grains see page 441-442.

SEPTORIA GLUME BLOTCH (*Leptosphaeria* (*Septoria*) *nodorum*) - MISSOURI - Area> status of imperfect stage on wheat [90% turning color, 25% ripe] June 16-20: Statewide> present in all fields examined with yield reduction serious for

about 10-20%. (A. Foudin). MARYLAND - Area> imperfect stage of Leptosphaeria (Septoria) nodorum on wheat week ending June 20: Throughout Eastern Shore> continued very prevalent. (R. Hochmuth). PENNSYLVANIA - District> County= prevalence of imperfect stage on wheat [early milk] June 12: SE> Lancaster= slight on glumes and awns of 'Hart' and 'S-76' on 60 ha (3 commercial farms and research plots) at State university. (D.T. Ware).

SPOT BLOTCH (Cochliobolus (Bipolaris) sativus) - MARYLAND - Area> Bipolaris sorokiniana status on wheat week ending June 20: C> detected but too late to treat this season. (R. Hochmuth).

WHEAT POWDERY MILDEW (Erysiphe graminis f.sp. tritici) - PENNSYLVANIA - District> County= severity on flag leaf of wheat [early milk] June 12: SE> Lancaster= 10-20% on 'Hart' and 'S-76', occurred generally on 60 ha (3 commercial farms and research plots) at State university. (D.T. Ware).

TAKE-ALL (Gaeumannomyces graminis f.sp. tritici) - MARYLAND - District> County= status on wheat week ending June 20: NC> Washington= diseased heads 3-5%. (R. Hochmuth).

CEREAL SCAB (Gibberella (Fusarium) roseum f.sp. cerealis) - MISSOURI - Area> status on wheat [90% turning color, 25% ripe] June 16-20: C and NE> imperfect stage appeared in many fields, perithecia and ascospores of perfect stage detected on crowns in former area. (A. Foudin).

SCAB (Fusarium spp.) - PENNSYLVANIA - District> County= prevalence on wheat [early milk] June 12: SE> Lancaster= less than 10% on 'Hart' and 'S-76' on 60 ha (3 commercial farms and research plots) at State university. (D.T. Ware).

BLACK CHAFF (Xanthomonas translucens f.sp. undulosa) - MISSOURI - Area> status on wheat [90% turning color, 25% ripe] June 16-20: C> brown-black discoloration of glumes and culms appeared in fields, even with drought conditions; damage light. (A. Foudin).

BARLEY YELLOW DWARF VIRUS - MONTANA - District> County= status week of June 19: C> Judith Basin= prevalence severe on winter wheat, severity greater than 50% in early planted wheat, and trace in later-planted grain. (J.H. Riesselman).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - MARYLAND - Area> status on wheat week ending June 20: Statewide> damage minor, still seems below normal for time of season. (R. Hochmuth).

GREENBUG (Schizaphis graminum) - TEXAS - District> County= counts per 0.3 row m of small grains June 6: Trans-Pecos> El Paso= 0-5. (J.A. Jackman).

ASTER LEAFHOPPER (Macrosteles fascifrons) - WISCONSIN - Populations more than doubled on oats during week ending June 13 with maturing of native leafhoppers. Area> counts per 100 sweeps of oats week ending June 13: Southern one-third of State> 8-60. (O.L. Lovett).

TURF, PASTURES, RANGELAND

DISEASES

A CYST NEMATODE (*Bidera mani*) - CALIFORNIA - New county record. District> County= collection data from miscellaneous roadside grasses: Central Coast> San Mateo= 4.7 km north of county line, east side of State Highway 1, (collection date unknown) by T. Watson, determined by A. Weiner, confirmed by A.M. Golden. (C.S. Papp). See footnote CPPR 4(43):851 for literature citation for genus name change.

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (*Hypera postica*) - TEXAS - District> County= larvae per sweep of alfalfa June 6-13: Trans-Pecos> El Paso= 0.25-17, increased; and Reeves and Ward= 1-3. (B.A. Lee). IDAHO - Larvae decreased. District> County= counts per sweep of alfalfa June 16: SW> Canyon= 10-15 at Caldwell. (C.R. Baird).

ALFALFA CATERPILLAR (*Colias eurytheme*) - OKLAHOMA - District> County= counts (average) per 10 sweeps of alfalfa week ending June 20: SW> Jackson, Harmon, Kiowa, and Tillman= 0-10 (4). (D.C. Arnold).

ALFALFA BLOTCH LEAFMINER (*Agromyza frontella*) - MARYLAND - District> County= status on alfalfa week ending June 20: NC> Frederick= adults averaged 6 per sweep, larval mines on less than 1% of tips. (R. Hochmuth).

APHIDS (*Acyrtosiphon* spp.) - NEVADA - District> County= PEA APHID (*Acyrtosiphon pisum*) mostly and BLUE ALFALFA APHID (*Acyrtosiphon kondoi*) per sweep of alfalfa: W> Humboldt= averaged 32 on seed alfalfa (L. Stitt), Washoe= ranged 100-200 on hay alfalfa in Reno area (G. Kerr, J. Knight), and Lyon= ranged from 100 on regrowth hay alfalfa [15 cm tall] to 1,000+ on uncut hay alfalfa in Mason Valley, and 10-50 on hay alfalfa in Smith Valley (R.C. Bechtel).

PEA APHID (*Acyrtosiphon pisum*) - OKLAHOMA - District> County= counts (average) per 10 sweeps of alfalfa week ending June 20: SW> Jackson, Harmon, Kiowa, and Tillman= 0-50 (7). (D.C. Arnold). MARYLAND - District> County= adults per sweep of alfalfa week ending June 20: NC> Frederick= 3. (R. Hochmuth).

POTATO LEAFHOPPER (*Empoasca fabae*) - KENTUCKY - Area> status on forage legumes: Statewide> populations continued to exceed economic thresholds in many fields. Damage, compounded with dry soil conditions, resulted in severely stunted and yellowed plants and early blooming with much of second growth not reaching knee high. (P.E. Sloderbeck). WEST VIRGINIA - District> County= adult average per 10 sweeps of alfalfa June 17: E> Greenbrier= 6.2. (J.D. Hacker, G.L. Clement). MARYLAND - Area> adults per sweep of alfalfa week ending June 20: Statewide> 1-2, expected to steadily increase. (R. Hochmuth).

LYGUS BUGS (*Lygus* spp.) - NEVADA - District> County= nymphal and adult averages per sweep of seed alfalfa: W> Humboldt= 0.14 and 0.08 at Jungo, treated earlier. (L. Stitt).

SOYBEANS

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - VIRGINIA - District> County= status on soybeans in trap plots June 13: E> Richmond= larvae 0 and adults 3 per 0.3 row m, and Westmoreland= larvae 0.8 and adults 9.3 per 0.3 row m. Egg laying heavy, 2-3 clusters per plant. (R.M. McPherson, N. Ptucha). MARYLAND - Adults still very heavy on Eastern Shore, especially in central Eastern Shore counties. Area> adults on soybeans week ending June 20: Central Eastern Shore counties> averaged 2-3 per 0.3 row m, and Lower and Upper Shore> less. Some fields replanted due to damage before first true leaf stage. Adult feeding damage magnified due to poor growing conditions during cool nights and wind and hail damage. (R. Hochmuth).

GREEN CLOVERWORM (*Plathypena scabra*) - KENTUCKY - District> County= eggs on soybeans [3 and 4 nodes] June 25: Bluegrass> Fayette= averaged about 1 per m in research plot, some just began hatch. (P.E. Sloderbeck).

PEANUTS

INSECTS

TOBACCO THRIPS (*Frankliniella fusca*) - NORTH CAROLINA - District> County= status on peanuts week ending June 20: Northern Coastal> Halifax, Northampton, Bertie, and Edgecombe= damage generally heavy, primarily in drought-stricken areas, threshold levels reached or exceeded where no systemic controls used. Fields noted with terminal buds 50-95% blackened and nymphs 1-5 per bud. Controls successful. (W. Rogister, R. Robertson).

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - NORTH CAROLINA - Few detected. Area> counts on peanuts week ending June 20: N> population appeared to increase. Drought conditions usually contribute to buildup, building up in nearby drought stricken corn fields. (R. Robertson).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Counts and punctured squares generally heavy from Lower Rio Grande Valley to north-central area week ending June 20. (J.A. Jackman). Counts on cotton May 26 to June 13 (J. Cocke et al.):

District> County	Counts
Lower Valley> Cameron	0-58 per 100 plants
Lower Valley> Cameron	punctured squares 0-68 per 100 plants
Lower Valley> Hidalgo	0-26 per 100 plants
Lower Valley> Hidalgo	punctured squares 0-60 per 100 plants
Lower Valley> Willacy	0-13 per 100 plants
Lower Valley> Willacy	punctured squares 0-54 per 100 plants
Coastal Bend> Kleberg	punctured squares 5-50%
Coastal Bend> Nueces	
& South Texas> Jim Wells	punctured squares 4-70%
Coastal Bend> San Patricio	
& Refugio	punctured squares 2-50%
Upper Coast> Ft. Bend	adults 0-24.75 per trap per week

<u>District> County</u>	<u>Counts</u>
Upper Coast> Wharton	adults 0.5-6.5 per trap per week
Upper Coast> Wharton	very light
Upper Coast> Wharton	punctured squares 0-4%
South-central area	adults trapped decreased
Blacklands> Williamson & Milam	adults 6 per trap per week
Blacklands> Hill	punctured squares up to 5%
Blacklands> Hill	adults 0-3 per trap per week
Blacklands> Ellis & Navarro	punctured squares 1-8%
Blacklands> Collin & Hunt	adults 1.2-40 per trap per week
Blacklands> Collin & Hunt	adults 0-0.75 per trap per week
Southern Low Plains> Fisher & Jones	adults trapped light
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	adults 0-1 per trap per week
Southern High Plains> Howard	1 adult trapped

OKLAHOMA - District> County= boll weevil adults in number of pheromone traps
June 14-20: SW> Jackson= 5 in 63; Harmon= 6 in 10; Kiowa= 1 in 23; Greer,
Tillman, Comanche, Cotton, Caddo, and WC> Washita= 0 in 102. (D.C. Arnold).

SOUTH CAROLINA - Boll weevil square damage very light in most fields, punctured
squares 10-15% in few fields near wooded areas. Pheromone trap catches decreas-
ing due to increased cotton squaring. Pheromone trap catches (D. Johnson):

<u>District> County</u>	<u>Average</u>	<u>2 weeks ending</u>
C> Calhoun	46.4	May 2
C> Calhoun	1.1	Jun 20
C> Calhoun	38.2	Jun 27
C> Sumter	6.1	May 9
C> Sumter	1.0	May 16
C> Sumter	4.5	May 23
C> Sumter	3.9	May 30
C> Sumter	0.8	Jun 13
C> Lee	44.3	May 9
C> Lee	8.2	May 16
C> Chester	8.0	May 9
E> Darlington	13.6	May 30
E> Darlington	29.6	Jun 6
E> Darlington	11.5	Jun 13
E> Dillon	34.3	Jun 6
E> Dillon	13.1	Jun 20
E> Florence	35.1	May 30
E> Florence	40.1	Jun 13
E> Marion	123.8	Jun 6
E> Marion	17.8	Jun 20
E> Marlboro	12.9	May 23
E> Marlboro	15.7	May 30
E> Marlboro	31.2	Jun 6
E> Marlboro	12.0	Jun 13
E> Marlboro	14.2	Jun 20

BOLLWORMS (*Heliothis* spp.) - TEXAS - BOLLWORM (*Heliothis zea*) and TOBACCO
 BUDWORM (*Heliothis virescens*) adults heavy in traps in South Plains area.
 Counts on cotton June 2-13 (J. Cocke et al.):

District> County	Counts per 100 plants		
	Eggs	Larvae	Damaged squares
Lower Valley> Cameron	0-38	0-30	0-16
Lower Valley> Hidalgo	0-20	0-12	0-20
Lower Valley> Willacy	0-5	0-14	0-14
Coastal Bend> Kleberg	3-15	4-35	5-35%
Coastal Bend> Nueces			
& South Texas> Jim Wells	0-10	0-16	2-12%
Coastal Bend> San Patricio			
& Refugio	0-9	0-5	0-4%
Upper Coast> Wharton	few	few	0-6% in most fields
Blacklands> Hill			
& Johnson	light	light	-
Blacklands> Ellis			
& Navarro	0-8	less than 1	-

OKLAHOMA - First of season on cotton. District> County= *Heliothis zea* egg and larval averages per 100 cotton plants week ending June 20: SW> Jackson= 1 and 2 in early planted field. (D.C. Arnold). SOUTH CAROLINA - District> County= *Heliothis* sp. eggs per 100 cotton plants June 13: C> Orangeburg, Calhoun, and Sumter= averaged 14-20 with up to 48 in some fields, and E> Dillon= very light in many fields, averaged 10-20 in several fields. (D. Johnson).

COTTON FLEAHOPPER (*Pseudatomoscelis seriatus*) - TEXAS - Populations reached economic levels in some cotton fields in Blacklands and north-central areas. (J.A. Jackman). Counts on cotton June 2-13 (J. Cocke et al.):

District> County	Counts
Lower Valley> Cameron	0-16 per 100 plants
Lower Valley> Hidalgo	0-14 per 100 plants
Lower Valley> Willacy	0-14 per 100 plants
Upper Coast> Wharton	infested plants 0-100%
Blacklands> Williamson	
& Milam	0-20 per 100 terminals
Blacklands> Hill	
& Johnson	3-34 per 100 terminals
Blacklands> Ellis	
& Navarro	2-32 per 100 plants
Blacklands> Collin	
& Hunt	up to 40 per 100 terminals
Blacklands> Collin	
& Hunt	0-60 per 100 terminals
South-central area	light in most fields
North-central area	increased

OKLAHOMA - First of season. District> County= cotton fleahopper counts per 100 cotton plants week ending June 20: SW> Jackson, Harmon, Kiowa, and Tillman= 0-10. (D.C. Arnold).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - WEST VIRGINIA - District> County= larvae per potato plant June 11: SW> Lincoln= 3-7. (J.D. Hacker).

BLACK CUTWORM (*Agrotis ipsilon*) - FLORIDA - District> County= status on potatoes week of June 12: C> St. Johns= common at Hastings, damage up to 5% in some fields. (R.B. Workman).

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - WISCONSIN - District> County= eggs on potatoes week ending June 13: SW> Sauk= noted in Spring Green area and C> Adams= none. (O.L. Lovett).

TOBACCO HORNWORM (*Manduca sexta*) - OKLAHOMA - First of season. District> County= status on tomatoes June 15: C> Payne= small larvae in garden. (D.C. Arnold).

DECIDUOUS FRUITS AND NUTS

DISEASES

CEDAR-APPLE RUST (*Gymnosporangium juniperi-virginianae*) - WISCONSIN - Area> status on apple week ending June 13: Statewide> foliar damage appeared where junipers common. (O.L. Lovett).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - WASHINGTON - District> County= counts per trap June 16: NE> Spokane= 8.2 at Spokane and 0.8 outside city. (G. Kupperman).

LESSER PEACHTREE BORER (*Synanthedon pictipes*) - SOUTH CAROLINA - District> County= pheromone trap catches of this species and PEACHTREE BORER (*Synanthedon exitiosa*) range (average) per trap on peaches week of June 12: WC> Edgefield, Saluda, and C> Lexington= 0-104 (16) and 1, respectively, in orchards. (D.R. Johnson).

PEACHTREE BORER (*Synanthedon exitiosa*) - IDAHO - District> County= adults in pheromone traps June 9-19: SW> Canyon= 20 in 2 traps at Central Cove. (C.R. Baird).

REDBANDED LEAFROLLER (*Argyrotaenia velutinana*) - VIRGINIA - District> County= adults in pheromone traps June 16: N> Frederick= 86. (L. Cobb).

A GRACILLARIID MOTH (*Lithocolletis blancardella*) - NEW YORK - District> County= adults June 12-19: W> Wayne= first generation seen June 18 (J. Richardson, Way) and Hudson Valley> increased, averaged 82 per trap. (R. Weires).

APPLE MAGGOT (*Rhagoletis pomonella*) - WISCONSIN - District> County= trap counts May 26 to June 11: SW> Crawford, Richland, Sauk, SC> Dane (2 traps), EC> Fond du Lac, C> Wood, NW> Barron (2 traps)= none in orchards. (O.L. Lovett). NEW YORK - First adult emergence. Area> adults on fruit June 20: Hudson Valley> seen. (R. Weires).

SAN JOSE SCALE (*Quadraspidiotus perniciosus*) - NEW YORK - First emergence of crawlers. District> County= status on fruit June 23: W> Ontario= seen near Phelps in western area. (Mague).

EUROPEAN RED MITE (*Panonychus ulmi*) - SOUTH CAROLINA - District> County= counts (average per leaf) on apples week ending June 20: NW> Oconee and Pickens= 0.1-7.5 (1.1) in orchards. (D.R. Johnson). NEW YORK - Area> status on fruit week ending June 27: W> second generation began to hatch (J. Richardson, Way) and Hudson Valley> population increased in many orchards. (R. Weires).

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - SOUTH CAROLINA - Populations 0.1-18.8 (average 1.8) per leaf on trees June 16. Hot dry weather can produce rapid buildup. (B. Hallman et al.).

PECAN NUT CASEBEARER (*Acrobasis nuxvorella*) - TEXAS - Damaged up to 20% of pecans in untreated orchards in eastern area and 50% in some sites around San Angelo. (J.A. Jackman). Status on pecans June 9-13 (J.N. Cooper et al.):

<u>District> County</u>	<u>Status</u>	<u>City</u>
Eastern area	up to 20%	-
Edwards Plateau> Tom Green	up to 50%	San Angelo area
Southern High Plains> Glasscock	damage 1-10%	-
SC> Caldwell	damage 8.95%	Luling
Cross Timbers> Parker	damage light	Weatherford

SMALL FRUITS

INSECTS

GRAPE LEAFFOLDER (*Desmia funeralis*) - OKLAHOMA - First of season. District> County= larvae on grapes week ending June 20: C> Payne= occasional in Perkins area. (D.C. Arnold).

LEAFHOPPERS (*Erythroneura* spp.) - OKLAHOMA - District> County= counts per grape leaf week ending June 20: EC> Pittsburgh= 15-20. (D.C. Arnold).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - WISCONSIN - New State record. District> County= collection data from *Pinus nigra* (Austrian pine): WC> Pepin= from Christmas tree plantation at Durand, May 13, 1980, by T. Nicholls and M. Palmer, determined by A. Foudin. (A. Foudin).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A MYMARID WASP (Anaphes flavipes) - WISCONSIN - District> County= adults of this larval parasite of Oulema melanopus (cereal leaf beetle) week ending June 13: SE> Ozaukee, Washington, Kenosha, SC> Jefferson, Rock, and Dane= 72,000 released. (O.L. Lovett).

A EULOPHID WASP (Pediobius foveolatus) - MARYLAND - Area> status of this larval parasite of Epilachna varivestis (Mexican bean beetle) on snap beans week ending June 20: Eastern Shore> released in plots throughout area. (R. Hochmuth).

ALKALI BEE (Nomia melanderi) - WASHINGTON - Cool, rainy weather of past several weeks delayed nesting activity 7-10 days. District> County= new nests per 0.09 sq m June 20: SE> Walla Walla= up to 68 in early beds, still none in late beds in Touchet and Lowden areas. (C. Johansen).

KLAMATHWEED BEETLE (Chrysolina quadrigemina) - WASHINGTON - District> County= adults per Hypericum perforatum (St. Johnswort) plant June 16: SE> Whitman= 5-100 at Union Center and Dusty, completely destroyed foliage and flowers. (G. Piper).

A WEEVIL (Rhinocyllus conicus) - WISCONSIN - Area> status on Carduus nutans (musk thistle) June 9: Kettle Moraine State Forest> about 500 released. (O.L. Lovett).

FEDERAL AND STATE PROGRAMS

DISEASES

First aecial collections of STEM RUST (Puccinia graminis) from BARBERRY (Berberis spp.) in 1980 made May 27 in Columbia, WISCONSIN, (Krueger, Biederman) and May 29 in Monroe County, WEST VIRGINIA (Bostic), 2 weeks later than in 1979. (A.P. Roelfs, D. Long).

OAT STEM RUST (Puccinia graminis f.sp. avenae) collected from oats in nurseries at Baton Rouge, LOUISIANA, and McGregor, Dallas, and Temple, TEXAS, May 28 to June 10. Normally reported by this date as far north as southern Kansas. On oats as far north as Brookings, SOUTH DAKOTA, June 11-24. Trace in varietal plots at Belleville, KANSAS, and Brookings, South Dakota, and in commercial fields in southern OKLAHOMA. Severity should be light except if initial infection was more frequent than now appears. Only late fields risk being damaged. (A.P. Roelfs, D. Long).

Oat stem rust first reported				
Area	Mean (1940-1979)	1980	Area	Mean (1940-1979)
TX, S	Mar 16	Mar 31	NE, SE	Jun 23
TX, C	Apr 17	May 8	IA, C	Jun 26
TX, NC	May 6	May 28	SD, S	Jul 9
KS, NE	Jun 12		MN, S	Jul 21

Area	Number of collections	No. of isolates of oat stem rust races			
		NA-5	NA-16	NA-23	NA-27
Identified from collections received before June 10:					
TX, Beeville	20	26	2	11	13
TX, Tynon	7				21
TX, Cuero	1	3			
Mexico, Monterrey	3				9
Mexico, Celaya	5	3	5		7
Mexico, Cd. Obregon	1		2		
Identified from collections received before June 23:					
TX, S	42	67	2	11	42
TX, C	25	8	16		39
GA	1				3
Mexico, NE	9				13
Mexico, C	8	1	5	1	10
Mexico, NW	10		14		15

WHEAT STEM RUST (*Puccinia graminis* f.sp. *tritici*) developed on wheat in late planting at Navidad, Nuevo Leon, MEXICO (Acosta 6-6-80). Rust developed there since early April, most likely from exogenous inoculum. First stem rust of season in United States at Dallas, TEXAS, June 10, 16 days later than normal. Only couple of pustules observed. One infected leaf with 2 ages of pustules found at Manhattan, KANSAS, June 16. (Eversmeyer). Initial infection must have occurred in early June. May have sporulated near normal time but very sparsely and thus undetected. Generally, 2 ages observed in trap plots of McNair 701 and Red Chief at Norton, Kansas, and Clay Center and Lincoln, NEB-RASKA, June 16-17. Sparse in central Great Plains, June 11-24. Only known source is Mexico. Arrived too late and much too infrequent and scant to threaten 1980's U.S. wheat crop. (A.P. Roelfs, D. Long).

Mean date (1921-1964) wheat stem rust first reported

Area	Date	Area	Date
TX, NC	May 1	SD, EC	Jun 16
KS, NE	May 28	MN, SE	Jun 19
NE, SE	Jun 5	ND, SE	Jun 24

Races identified from collections from non-inoculated areas in Mexico before June 10.

Area	Number of Collections	No. of isolates of wheat stem rust races			
		151		113	29
		OCB	QSH	RPQ	HJC
Monterrey	1		2		1
Celaya	13	5	6	27	

For other rusts on small grains see page 433.

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - VIRGINIA - District> County= adults per corn [seedling] plant June 12: E> Richmond= 8, caused significant defoliation. (R.M. McPherson). DELAWARE - District> County= status on corn week ending June 20: S> Sussex= heavy, damage confined to leaf areas, apparently below economic level. (D.F. Bray).

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - District> County= status week of June 12: S> Lee= increased significantly in Fort Myers area, leaf surveys show corresponding parasite increase; and Okeechobee= increased in Okeechobee area, many properties infested. Parasite releases to be increased. (B.W. Granberry).

GRASSHOPPERS - CALIFORNIA - District> County= large (Oedaleonotus enigma enigma) nymphs per 0.8 sq m of miscellaneous grasses and weeds May 22: Southern California> Los Angeles= about 20-30 during very windy day. (G.L. Maxwell, J. Mork)

NEW MEXICO - District> County= grasshopper status: SE> Chaves and Eddy= control program completed, 112,047 ha treated (T. Riddle) and NW> Bernalillo= nymphs heavy in gardens, damage heavy on grass and flowers at Albuquerque and vicinity (C. Heninger).

OKLAHOMA - District> County= grasshoppers week ending June 20: Panhandle> Cimarron= 200 per 0.8 sq m of alfalfa in Cimarron River bottom; Texas and Beaver= mostly 6-9 per 0.8 sq m on rangeland; NC> Major and Garfield= variable, 15-25 per 0.8 sq m in fence rows and roadsides in some areas; Garfield= moderate in gardens and sorghum; NE> Mayes= heavily damaged 2 ha of soybean field, Craig= heavy in some areas; SW> Tillman= heavy, moving from fence rows into young cotton; Jackson, Harmon, Kiowa, and Tillman= 0-5 (averaged 2) per 0.8 sq m in 33 alfalfa fields; SC> Garvin= 20-30 per 0.8 sq m and even heavier in johnsongrass on margins in 1 area; and Coal= mostly Melanoplus sp. averaged 5 per 0.8 sq m in pasture in Clarita area. (D.C. Arnold).

MONTANA - District> County= grasshopper status week ending June 22: SC> Big Horn= Melanoplus bivittatus mating, heavy in spots but only in small area, feeding mostly on mustard, sweet clover, and leafy spurge near Decker; Aulocara ellioti heavy, mainly adults in some crested wheatgrass areas near Decker. (G.L. Jensen).

GYPSY MOTH (Lymantria dispar) - WEST VIRGINIA - District> County= larval counts: E> Jefferson= 7 under burlap bands and 1 not under burlap bands on chestnut oak, and 7 not under burlap bands on various trees with 2 egg masses on chestnut oak. (A.R. Miller). DELAWARE - District> County= status week ending June 20: N> New Castle= defoliated many shade trees, especially white oaks, first aesthetic damage level reported. (D.F. Bray).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - First larval establishment in State since eradication from Venice in 1976. District> County= collection data: Southern California> Los Angeles= male in Jackson trap on orange tree in yard at Canoga Park, June 5, 1980, by M. Suzuki. Total of 8 larvae collected from Eriobothrya japonica (loquat) few doors away from above at Northridge, June 17-18 by N. Armanious and W. Routhier. All determined by E. Chao; confirmed by K. Corwin. Nearest crop area, commercial citrus groves, 26 air km away. Other adult finds in infested area: Male in Jackson trap on grapefruit tree June 19 at Reseda about 7.2 km southeast of Canoga Park find, and gravid virgin female in Jackson trap June 26 at Reseda about 5.6 km south-

east of Canoga Park find. (G. Buxton, C.S. Papp). Mediterranean fruit fly eradication underway. Bait spot treatments applied to preferred hosts in detection sites, soil treated under fruiting trees where larvae found, sterile flies released in 23-sq-km core area around detection sites, aerial releases of sterile pupae planned for mid-July in 329-sq-km drop zone. (S. Wilson).

DETECTION

NEW STATE RECORD

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - WISCONSIN - Pepin County. (p. 440).

NEW COUNTY RECORD

DISEASES

A CYST NEMATODE (Bidera mani) - CALIFORNIA - San Mateo. (p. 435).

OTHER RECORDS

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - Second larval establishment. (p. 443-444).

CORRECTIONS

CPPR 5(18):335 - DARKSIDED CUTWORM (Euxoa messoria) - KENTUCKY - Misidentified, delete this species. (P.E. Sloderbeck).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	CLO	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
																1		8	27
CALIFORNIA																			
																		3	
																		1	
DELAWARE																			
																		2	
INDIANA																			
																		0	
																		3	
KENTUCKY																			
									18				123						
MARYLAND (Counties)																			
MINNESOTA																			
																		2	
																		5	
MISSISSIPPI																			
NEBRASKA																			

* 3 traps
** 2 traps

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
OHIO (County)																			
Putnam 6/17-23		B		0		0	0											0	
SOUTH CAROLINA (Averages)																			
Long Creek 6/13-19		P							0.1				9.5						
Mountain Rest 6/13-19		P							0.6				28.7						
TEXAS																			
College Station 6/20-24		B		0		0	1	0		0				0	0	0	0		1
VIRGINIA																			
Painter 6/15-21		B		218		103	1	3				6		2				21	7
WISCONSIN																			
Lancaster 6/18-24		B		10		1				4									
Racine 6/17-23		B		16		2				67									

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltnash Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm		

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Cooperative Plant Pest Report

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July 11, 1980

Vol. 5

No. 24

JUL 24 '80

PROCUREMENT SECTION
CURRENT SERIAL RECORDS



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
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U.S. Department of Agriculture
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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

CORN ROOTWORM damage to corn expected to peak soon in eastern area of Nebraska (p. 450).

CHINCH BUG continued to move into corn and sorghum in southeastern Nebraska. (p. 451).

WHEAT LEAF RUST most prevalent disease on wheat in southwestern Indiana. (p. 451).

Serious cases of BARLEY STRIPE in area of Maryland. (p. 452).

ALFALFA BLOTCH LEAFMINER damage in Maryland. (p. 453).

POTATO LEAFHOPPER adults 0.5 or more per sweep of alfalfa checked in West Virginia and Virginia. (p. 453).

Some First Occurrences of the Season

HOLCUS SPOT on sorghum in Kansas, STEWART'S WILT on corn, and NORTHERN and WESTERN CORN ROOTWORM adults in Missouri. FALL ARMYWORM larvae on alfalfa in Oklahoma.

Reports in this issue are for the week ending July 4 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON SMUT (*Ustilago maydis*) - KANSAS - Observed on corn. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence</u>	<u>Host stage</u>
NE> Jefferson	trace	pretassel
SC> Kiowa	trace	pretassel
SC> Stafford	trace	pretassel
SW> Finney	trace	pretassel
C> Barton	trace	pretassel

MARYLAND - Area> common smut on corn; Eastern Shore> infected 80.9 ha. (O. Morgan, R. Hochmuth).

HOLCUS SPOT (*Pseudomonas syringae*) - KANSAS - First of season. District> County= prevalence on sorghum [5 leaf]: SW> Ford= trace in 1 field. (T. Sim, IV).

STEWART'S WILT (*Erwinia stewartii*) - MISSOURI - First of season. Area> prevalence/severity on sweet corn week ending June 27: NC> 70%/40-60% of leaf area in garden. (A. Foudin). MARYLAND - District> County= status on 'Platinum Lady' sweet corn: NC> Baltimore and Carroll= 2 cases in small fields. (P. Hochmuth).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= status on corn [host stage if given]: EC> Shawnee, Douglas, and NE> Pottawatomie= none in fields surveyed, Jefferson= trace [pretassel], and SW> Finney= 25 [pretassel]; prevalence on sorghum [36 cm tall]: EC> Geary= red leaf trace in 1 field. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - MISSOURI - Area> status on corn: C> first generation lighter than in past 20 years throughout growing areas, leaf feeding damage on 0-14% of plants. (R.E. Munson).

NEBRASKA - District> County= European corn borer on corn [host stage if given] week of June 26: S> Kearney, C> Hall, and Buffalo= egg masses and young larvae infested up to 32% (averaged 7.5%) of plants in 48 of 107 fields; Howard, E> Merrick, Nance, and Hamilton= "shothole" damage on up to 40% (averaged 12%) in 86 of 99 fields, some egg masses still unhatched (Monke, Raun); SE> Clay= 1st and 2nd instar larvae infested 10% of plants at South Central Station, some fresh egg masses (Peters); Fillmore= leaf feeding damage on 0-28% (averaged 15%) of plants [7-9 leaf] in 40 fields (Raun); NE> Antelope and N> Holt= 1st and 2nd instar larvae and small numbers of fresh egg masses infested 35+% of plants in 3 of 24 fields (Jarvi); Wheeler= leaf feeding damage on 15-44% of plants in 23 [6-10 leaf] of 43 fields [3-10 leaf], 35+% damage in 10 of the 23 fields (Raun); SW> Perkins= 1st and 2nd instar larvae infested 88% of plants [127 cm extended leaf height] in 1 field, unhatched egg masses very few; and Lincoln= exceeded 35% infestation treatment threshold in at least 1,214 ha (Kozub, Troxol).

VIRGINIA - District> County= average percent of corn plants infested by European corn borer in treated and untreated fields, respectively: E> Westmoreland= 0-20% and 5-16% and Richmond= 5-34% and 12-41%. (R.M. McPherson).

MARYLAND - Area> European corn borer on corn: Statewide> larval damage continued below normal with spotty economic damage; Eastern Shore> adult activity almost completed, average damage appeared to be 15-20% infestation; C> adult activity tapering off, average damage appeared to be 15-20% infestation, slight increases may occur due to some continued first brood adult activity. (R. Hochmuth).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - TEXAS - District> County= status on corn: Northern High Plains> Hale= adults up to 7 per night June 13 and eggs and larvae very light June 20. (G.B. Cronholm).

CORN EARWORM (*Heliothis zea*) - ALABAMA - Area> larvae (average) per 25 corn [host stage] plants in number of fields (f) June 30: Tennessee River> 3rd to 4th instars 2-4 (3) [tassel] in 5f (J.E. Gregory), Central Alabama> 3rd to 4th instars 1-6 (3.5) [dent to early tassel] in 4f (C. Knox, N. Wilson), Coastal Plains> 3rd to 5th instars 1-10 (3.7) [tassel to fully grown] in 6f (T. Lemons), Gulf Coast> 3rd to 4th instars 1-12 (3.2) [silk to fully grown] in 5f (L.W. Lockhart), and Wiregrass> 4th instar 3-15 (10) [silk to late silk] in 8f (W.N. Stephenson). MISSOURI - District> County= eggs on sweet corn silks: C> Boone= noted July 2. (R.E. Munson). TEXAS - District> County= status on corn: Northern High Plains> Hale= feeding in most fields June 13, and adults 13-245 per trap per night June 6-12, and 5-60 per trap per night June 20. (G.B. Cronholm).

ARMYWORM (*Pseudaletia unipuncta*) - WEST VIRGINIA - District> County= larval average per 100 corn [early whorl] plants in row: SW> Mercer= 12. (G.L. Clement).

SORGHUM MIDGE (*Contarinia sorghicola*) - TEXAS - Status on sorghum June 17-20 (J. Cocke et al.):

District> County	Counts
Lower Rio Grande area	very heavy
Lower Gulf Coast area	moderate in blooming field
Blacklands> Williamson & Milam	few
SC area	increased
NC area	none

CORN ROOTWORMS (*Diabrotica* spp.) - MISSOURI - First of season. District> County= NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) and WESTERN CORN ROOTWORM (*Diabrotica virgifera*) adults on corn: C> Boone= collected June 30. (R.E. Munson). NEBRASKA - District> County= *Diabrotica* spp. larvae (average) per corn plant week of June 26: S> Kearney, C> Hall, and Buffalo= up to 1.9 (0.41) in 56 of 107 fields; Howard, E> Merrick, Nance, and Hamilton= up to 12 (1.47) in 56 of 99 fields (Monke); Saunders= 35-75 (50) at Mead experiment station in trap crop areas, up to 2 full nodes of roots destroyed on some plants, pupae heavy and larval damage expected to peak by next period (Mayo); and NE> Dixon= 2nd and 3rd instar larvae in test plots at Northeast Station (Jarvi).

CORN LEAF APHID (*Rhopalosiphum maidis*) - TEXAS - District> County= counts on sorghum June 18: Edwards Plateau> Tom Green and Southern Low Plains> Runnels= heavy in some fields. (A.A. Armstrong). OKLAHOMA - District> County= average per sorghum [25 cm tall] plant week ending June 27: NE> Wagoner= 10. (D.C. Arnold).

GREENBUG (*Schizaphis graminum*) - TEXAS - District> County= status on sorghum June 18-20: Blacklands> Ellis and Navarro= increased, Collin and Hunt= light, Edwards Plateau> Tom Green and Southern Low Plains> Runnels= increased. (G.C. Moore et al.).

CHINCH BUG (*Blissus leucopterus leucopterus*) - OKLAHOMA - District> County= counts per grain sorghum [13 cm tall] plant week ending June 27: EC> Muskogee= 2-3 in field. (D.C. Arnold). NEBRASKA - Migrations of many 1st to 4th instar nymphs and some adults from maturing wheat to adjacent corn and sorghum continued in southeastern counties. District> County= status on sorghum [host height] week ending June 26: SE> Nuckolls= up to 25 per 0.09 sq m in field border; Thayer= up to 150 (averaged 30) per plant in chinch bug plot, dead plants [averaged 15 cm extended leaf height] up to 30 m into field and damaged plants up to 40 m into field, dying plants and dead chinch bugs in rows treated at planting time (Peters); and E> Lancaster= averaged 75 per sweep in brome grass ditch bordering sorghum [36 cm extended leaf height] field in southern area, up to 2,000 per sorghum plant in border rows, lower leaves yellowed and browning, and upper leaves curled and wilting in border 20 rows (Keith).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - INDIANA - Most prevalent disease on wheat in southwestern area, combined with SPECKLED LEAF BOTCH (*Septoria tritici*) and senescence to cause extensive late-season chlorosis and necrosis. Survey of top 2 leaves (flag leaf and next lower leaf) on wheat June 15-21 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Parke	99	75	medium milk
WC> Clay	99	25	dough developing
SW> Daviess	99	25	soft dough
SW> Knox	99	5	ripening
SW> Gibson	99	50	dough developing
SW> Vanderburgh	99	10	ripening
SW> Warrick	99	20	soft dough
SW> Dubois	99	20	ripening
SW> Martin	99	10	dough developing
SC> Lawrence	90	10	dough developing
C> Morgan	99	15	medium milk

SPECKLED LEAF BLOTCH (*Septoria tritici*) - INDIANA - Widespread and at fairly high levels on wheat in southwestern area, combined with more prevalent WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) and senescence to cause late-season chlorosis and necrosis. Survey of top 2 leaves (flag leaf and next lower leaf) on wheat June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Parke	1	trace	medium milk
WC> Clay	50	5	dough developing
SW> Daviess	50	15	soft dough
SW> Knox	80	10	ripening
SW> Gibson	80	1	dough developing
SW> Vanderburgh	99	30	ripening
SW> Warrick	not seen	not seen	soft dough
SW> Dubois	80	5	ripening
SW> Martin	50	5	dough developing
SC> Lawrence	90	10	dough developing
C> Morgan	99	15	medium milk

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - INDIANA - Survey on flag leaf and next lower leaf of wheat June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Parke	not seen	not seen	medium milk
WC> Clay	not seen	not seen	dough developing
SW> Daviess	not seen	not seen	soft dough
SW> Knox	not seen	not seen	ripening
SW> Gibson	90	2	dough developing
SW> Vanderburgh	not seen	not seen	ripening
SW> Warrick	not seen	not seen	soft dough
SW> Dubois	not seen	not seen	ripening
SW> Martin	not seen	not seen	dough developing
SC> Lawrence	not seen	not seen	dough developing
C> Morgan	not seen	not seen	medium milk

BARLEY STRIPE (*Pyrenophora* (*Drechslera*) *graminea*) - MARYLAND - Area> status of imperfect stage on barley week ending June 20: Central Eastern Shore counties> serious cases reported, seemed especially severe on 'Maury' (R. Hochmuth); currently: C> 1 case on 'Maury' (Morgan, R. Hochmuth).

LEPTO LEAF SPOT (*Leptosphaerulina briosiana*) - KANSAS - District> County= prevalence on alfalfa: SC> Edwards= 10% in 1 field. (T. Sim, IV).

SCAB (*Fusarium* spp.) - INDIANA - Survey on wheat June 15-21 (R.A. Schall):

<u>District> County</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Parke	2	medium milk
WC> Clay	1	dough developing
SW> Daviess	not seen	soft dough
SW> Knox	trace	ripening
SW> Gibson	2	dough developing
SW> Vanderburgh	not seen	ripening
SW> Warrick	not seen	soft dough
SW> Dubois	not seen	ripening
SW> Martin	not seen	dough developing
SC> Lawrence	trace	dough developing
C> Morgan	not seen	medium milk

CEREAL SCAB (Gibberella (Fusarium) roseum f.sp. cerealis) - MARYLAND - Area> status of imperfect stage on wheat: C> small amounts noted. (R. Hochmuth).

INSECTS

ENGLISH GRAIN APHID (Macrosiphum avenae) - NEVADA - District> County= status on small grains: W> Pershing= about 1,000 ha treated in Lovelock area. (G. Munk, L. Stitt).

FORAGE LEGUMES

DISEASES

COMMON LEAF SPOT (Pseudopeziza medicaginis) - MARYLAND - Area> status on alfalfa: Eastern Shore> moderate, symptoms on about 20% of lower leaves, and C> cases reported. (R. Hochmuth).

INSECTS

ALFALFA WEEVIL (Hypera postica) - TEXAS - District> County= larvae per sweep of alfalfa week ending June 20: Trans-Pecos> El Paso= 0.25-48 and Pecos and Reeves= 4-5. (C.W. Neeb). OKLAHOMA - Area> larval status on alfalfa week ending June 27: SW> few still present, infested terminals 0-4% (averaged 0.1%). (D.C. Arnold).

EGYPTIAN ALFALFA WEEVIL (Hypera brunneipennis) - ARIZONA - District> County= larvae and adults per 100 sweeps of alfalfa week of June 26: SE> Graham= 100 and 70. (M. Tanaka et al.).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= larvae per 100 sweeps of alfalfa week of June 26: SW> Yuma= 5-110. (M. Tanaka et al.). OKLAHOMA - District> County= counts per 10 sweeps of alfalfa week ending June 27: SW> Jackson, Harmon, Tillman, and Kiowa= 0-11 (averaged 3.9) in 38 fields. (D.C. Arnold).

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - First of season. District> County= small larvae per 10 sweeps of alfalfa June 19-25: C> Payne and SC> Stephens= averaged less than 1 and Johnston= 3-5. (D.C. Arnold).

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - MARYLAND - Severe damage began to appear throughout State. District> County= status: NC> Carroll= up to 100% mined tips in isolated cases and treatment applied, and Eastern Shore area> mined tips not more than 20% and adults not more than 5 per sweep, damage here seemed less than in central area of State. (R. Hochmuth).

POTATO LEAFHOPPER (Empoasca fabae) - MISSOURI - Area> counts per sweep of forage legumes: C> 4-16 in 10 fields, yellowed plants in 3 of 10 fields. (R.E. Munson). VIRGINIA - District> County= adult averages per sweep of alfalfa [average host height] June 25-27: W> Augusta= 0.7 [36 cm], Rockbridge= 1.2 [27 cm], S> Franklin= 0.3 [35 cm], and N> Rockingham= 1.0 [41 cm]. (J.M. Luna, G.L. Clement). WEST VIRGINIA - District> County= adult averages per sweep of alfalfa [host height]: E> Summers= 0.5 [26 cm], Greenbrier= 0.6 [44 cm], Monroe= 0.7 [53 cm], and SW> Mercer= 0.6 [37 cm]. (G.L. Clement).

SPOTTED ALFALFA APHID (Therioaphis maculata) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week of June 26: SW> Yuma= 100-600. (M. Tanaka et al.).

APHIDS (*Acyrtosiphon* spp.) - NEVADA - District> County= PEA APHID (*Acyrtosiphon pisum*) mostly and BLUE ALFALFA APHID (*Acyrtosiphon kondoi*) range if given (average) per sweep of seed alfalfa: W> Humboldt= 21-225 (63) at Jungo currently; 0.8-74.8 (16) at Orovada, June 23-28, and Pershing= 0.6-588 (93.4) at Lovelock, June 23-28. (R.C. Bechtel).

PEA APHID (*Acyrtosiphon pisum*) - NEVADA - District> County= counts per sweep of seed alfalfa: W> Pershing= heavy, up to 700 at Dixie Valley. (J. Berg). ARIZONA - District> County= counts per 100 sweeps of alfalfa week of June 26: SW> Yuma= 3,150. (M. Tanaka et al.). OKLAHOMA - District> County= range (average) per 10 sweeps of alfalfa week ending June 27: SW> Jackson, Harmon, Tillman, and Kiowa= 0-15 (2.9) in 38 fields. (D.C. Arnold).

LYGUS BUGS (*Lygus* spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week of June 26: SW> Yuma= 7-360. (M. Tanaka et al.). NEVADA - District> County= 1st to 3rd instar larvae, 4th to 5th instars, and adult ranges if given (average) per sweep of seed alfalfa: W> Humboldt= 0.04-1 (no data), no data (no data), and 0.03-1 (no data) at Jungo currently; and no data (0.2), no data (0.05), and no data (0.1) at Orovada, June 23-28; and Pershing= no data (0.4), no data (0.01), and no data (0.1) at Lovelock, June 23-28. (R.C. Bechtel).

SOYBEANS

DISEASES

SOYBEAN BROWN SPOT (*Septoria glycines*) - MISSOURI - First of season in north-western area. Area> prevalence/severity on soybeans [early flower] week ending June 27: NW> 10-20%/trace to 5% on lower leaves only. (A. Foudin).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - VIRGINIA - District> County= larvae and adults per row m of soybeans June 23: E> Westmoreland= 5 and 1.1, and Richmond= 1.8 and 1.6. Egg laying and early instar larvae heavy but 4th instars few due to predation and dry, hot weather. (R.M. McPherson et al.). MARYLAND - Area> status on soybeans: Eastern Shore and S> overwintered adults still active but population decreased noticeably due to old age, egg laying continued and early instars present on early planted beans throughout first area; S district> Prince Georges County= 80.9 ha treated for early adult damage. (R. Hochmuth, Dively).

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - ALABAMA - Area> adults (average) per 4.6 row m of soybean [prebloom] plants June 30: Coastal Plains> 2-14 (8) in 2 fields. (T. Lemons).

WHITEFRINGED BEETLES (*Graphognathus* spp.) - ALABAMA - Area> adults (average) per 4.6 row m of soybean [prebloom] plants June 30: Coastal Plains> no data (1) in 1 field (T. Lemons) and Gulf Coast> 1-2 (1.5) in 2 fields (L.W. Lockhart).

THREESTRIPED BLISTER BEETLE (*Epicauta lemniscata*) - MISSOURI - First of season. District> County= counts on soybeans: C> Cole= very light. (R.E. Munson).

SOYBEAN LOOPER (*Pseudoplusia includens*) - ALABAMA - Area> 2nd instar larvae (average) per 4.6 row m of soybean [prebloom] plants June 30: Coastal Plains> 1 (10) in 1 field (T. Lemons) and Gulf Coast> 1-4 (2.5) in 4 fields (L.W. Lockhart).

SOYBEAN THRIPS (*Sericothrips variabilis*) - OKLAHOMA - District> County= average per 0.3 row m of young soybeans week ending June 27: EC> Muskogee, McIntosh, Okmulgee, and NE> Wagoner= about 10 in 8 fields. (D.C. Arnold).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Main concern on cotton from Lower Rio Grande Valley through north-central area. (J.A. Jackman). Counts on cotton June 9-20 (J. Cocke et al.):

District> County	Counts
Lower Valley> Cameron	0-60 per 100 plants
Lower Valley> Cameron	punctured squares 0-70 per 100 plants
Lower Valley> Hidalgo	0-59 per 100 plants
Lower Valley> Hidalgo	punctured squares 0-5 per 100 plants
Lower Valley> Willacy	0-14 per 100 plants
Lower Valley> Willacy	punctured squares 0-24 per 100 plants
Coastal Bend> Kleberg	punctured squares 20-60%
Coastal Bend> Nueces & South Texas> Jim Wells	punctured squares 5-65%
Coastal Bend> San Patricio & Refugio	punctured squares 2-55%
Blacklands> Williamson & Milam	punctured squares 0-4%
Blacklands> Williamson & Milam	adults 0-4 per trap per week
Blacklands> Ellis & Navarro	punctured squares 3-56%
Blacklands> Collin & Hunt	punctured squares 0-8%
Blacklands> Collin & Hunt	adults 0.5-11.25 per trap per week
SC area	adults light in traps
Southern Low Plains> Mitchell & Scurry	adults 127 per trap per week

OKLAHOMA - District> County= boll weevil adults in number of pheromone traps week ending June 27: SW> Jackson= 1 in 68, Harmon= 2 in 10, and Tillman, Cotton, Comanche, Kiowa, Greer, WC> Washita, and SW> Caddo= 0 in 134. (D.C. Arnold).

BOLLWORMS (*Heliothis* spp.) - TEXAS - BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) increased in Lower Rio Grande Valley but still light for time of year. District> County= bollworm adults in light traps week ending June 27: Northern High Plains> Hale= heavy. (J.A. Jackman). Counts on cotton June 18-20 (J. Cocke et al.):

District> County	Counts per 100 plants		
	Eggs	Larvae	Damaged squares (%)
Lower Valley> Cameron	0-20	0-30	0-29
Lower Valley> Hidalgo	0-24	0-18	0-18
Lower Valley> Willacy	0-63	0-7	0-9
Coastal Bend> Kleberg	0-15	0-7	0-30
Coastal Bend> Nueces & South Texas> Jim Wells	0-10	0-8	0-8

District> County	Counts per 100 plants		
	Eggs	Larvae	Damaged squares (%)
Coastal Bend> San Patricio & Refugio	0-10	0-4	0-12
Blacklands> Williamson & Milam	0-25	0-7	0-15
Blacklands> Ellis & Navarro	3	up to 6	no data
Blacklands> Collin & Hunt	0-2	no data	no data
SC area	light	light	no data
NC area	few	few	no data

OKLAHOMA - District> County= Heliothis zea and Heliothis virescens adults in pheromone traps week ending June 27: SW> Jackson= 12 and 0 in 6 traps. (D.C. Arnold).

COTTON FLEAHOPPER (Pseudatomoscelis seriatus) - TEXAS - Economic in some fields in Blacklands and north-central areas. (J.A. Jackman). Counts on cotton June 17-20 (C.L. Cole et al.):

District> County	Counts per 100 terminals
Blacklands> Williamson & Milam	0-28
Blacklands> Ellis & Navarro	16-24
Blacklands> Collin & Hunt	0-60
North-central area	25+ in some fields

OKLAHOMA - District> County= cotton fleahopper range (average) per 100 cotton plants week ending June 27: SW> Jackson, Greer, Harmon, Tillman, Kiowa, Cotton, Comanche, and WC> Washita= 1-26 (1.5) in 42 fields. (D.C. Arnold).

WESTERN FLOWER THRIPS (Frankliniella occidentalis) - TEXAS - Area> counts per cotton bloom June 20: Lower Rio Grande Valley> up to 200. (J. Cocke, J.W. Norman).

DECIDUOUS FRUITS AND NUTS

INSECTS

PECAN NUT CASEBEARER (Acrobasis nuxvorella) - TEXAS - Status on pecans June 12-16 (J.N. Cooper):

District> County	Status	City
Blacklands> Cooke	nut entry	Gainesville
Blacklands> Williamson	mature nuts infested 2.2%	Georgetown
Edwards Plateau> Tom Green	nuts infested 3.45%	San Angelo
Edwards Plateau> Tom Green	infested clusters 7.1%	San Angelo

OKLAHOMA - District> County= pecan nut casebearer status on pecan week ending June 27: NE> Rogers= nut entries 5-9% in 2 untreated orchards, and Nowata= damage light. (D.C. Arnold).

BLACKMARGINED APHID (Monellia caryella) - ARIZONA - District> County= counts per 100 pecan leaves week of June 26: C> Maricopa= 14 per leaf and SE> Pima= adults 278-640. (L. Eiland, F. Brooks).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

ALFALFA LEAF CUTTING BEE (Megachile rotundata) - NEVADA - Adult emergence increased in seed alfalfa areas, unfavorable weather holding back heavy numbers from emergence. (M. Spencer).

FEDERAL AND STATE PROGRAMS

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - VIRGINIA - Adults caused feeding damage. District> County= adult averages per plant and percent of corn fields infested June 25: N> Shenandoah= 3-4 and 35-40%. (E.M. Conklin). MARYLAND - Spotty, heavy adult infestations in central area. District> County= adults per corn plant: NC> Carroll= heaviest, 10 in edges of field next to barley field where larvae present early in season. (R. Hochmuth).

GRASSHOPPERS - OREGON - Area> County= status June 23-27: C> northern Wasco= mainly Melanoplus sanguinipes involved, control program on 10,742 ha being developed at 7 MILE HILL west of The Dalles and along Deschutes River southward to Ferry Canyon; southern Wheeler= mostly 1st to 3rd instars of Melanoplus sanguinipes 20-30 per 0.8 sq m on about 4,000 ha of rangeland in Antone, south of Table Mountain, 8 or more per 0.8 sq m scattered in Bear Creek area about 20 km northwest of Mitchell (D.C. Lightfoot); E> Baker= Melanoplus spp. 15-40 per 0.8 sq m throughout, rangeland control program on 141,640 ha developed (P.J. Johnson); Malheur= Melanoplus spp. economic from Beulah Reservoir to Westfall to Ironside and Brogan areas, also economic south of Vale and around Arock and Rome (M. Howell, K. Goeden), infestations similar to Harney County infestations scattered over northeastern corner of county; Harney= 1st to 4th instars of Melanoplus spp. economic, 10-40 per 0.8 sq m, over 6,070.3 ha and centered at Malheur Cave and Riddle Mountain (J. LaBonte, P. Friedrichsen); Lake= Melanoplus spp. scattered economic infestations on about 2,000 ha near Lakeview and Valley Falls (J. LaBonte, E.E. Willis); and S> Klamath= 1st and 2nd instars of Camnula spp., 40-80 per 0.8 sq m, scattered at Klamath Marsh. (F.P. Larson).

NEVADA - District> County= Melanoplus sanguinipes status: NE> Elko= 90% of this species, 2nd instar nymphs through adults, mostly 3rd instar nymphs 5-25 (averaged 8+) per 0.8 sq m of rangeland on 5,665.6 ha, including 2,590-ha burn area which is most heavily infested, in Doby Range from Doby Summit to Carlin (S. Martinez), this species 75% and Oedaleonotus enigma 25% (75% adults) 712 (averaged 9) per 0.8 sq m of rangeland in unspecified hectares in Upper Clover Valley; W> Humboldt= the first species 60%, Oedaleonotus enigma 30%, and mixed species 10% (30% adults) averaged 11 per 0.8 sq m of rangeland in Kings River Valley (D. Kail), spearmint field treated for first species at Orovida (M. Spencer).

TEXAS - Mostly all grasshoppers hatched and at economic levels in many Panhandle areas.

District> County	Counts
Southern Low Plains> Mitchell & Scurry	heavy
Southern High Plains> Howard	economic in northwestern area
Southern High Plains> Glasscock	light
Southern High Plains> Martin	light
Northern Low Plains> Dickens	7-49 per 0.8 sq m
Edwards Plateau> Reagan	light
Trans-Pecos> El Paso	light

OKLAHOMA - District> County= grasshopper status week ending June 27: Panhandle> southeastern Texas= Melanoplus occidentalis, Aulocara elliotti, Phlibostroma quadrimaculatum, Hesperotettix spp. and Metator pardalinus common, 10-30 per 0.8 sq m of rangeland, less than 10% adults, most nymphs in 3rd or 4th instar; Ellis= 10-20 per 0.8 sq m in gardens, alfalfa, and rangeland; C> Payne, Lincoln, and Grady= damaged gardens and ornamentals in some areas; NE> Craig= heavy in gardens and crops in some areas; Wagoner= heavy, migrated from mature wheat into gardens; Wagoner, EC> Muskogee, McIntosh, and Okmulgee= defoliation about 5% in 2 of 8 soybean fields; SW counties> light to heavy on young cotton, 10+ per 0.8 sq m in weedy areas of some fields; SW> Jackson, Harmon, Tillman, and Kiowa= 0-6 (average 2.5) per 0.8 sq m; SC> Jefferson= 8+ per 0.8 sq m in pastures; Bryan= heavy in pastures and gardens; and Coal= heavy in pastures, crops, and gardens. (D.C. Arnold).

JAPANESE BEETLE (Popillia japonica) - WEST VIRGINIA - District> County= adults on corn [early whorl]; E> Monroe= feeding. (G.L. Clement). MARYLAND - Rapidly increased throughout State, infested silk where sweet corn in silk. District> County= average per plant: Eastern Shore> Dorchester= 1 on silks, often up to 12 per silk on single plants. (R. Hochmuth).

*11-458

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAW	BCw	CEw	ClO	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAW
FLORIDA																			
				B							1	10							1
KANSAS																			
				B	35	12	0			0								1	0
				B	83	22	0			0								4	2
KENTUCKY																			
				B	15					0									
				B	115	11				0								9	
				4P						0	2								
				2P						0	0								
MARYLAND (Counties)																			
				B	7	4													
				B	17	2													
MINNESOTA																			
				B	132	1				29								3	
				B	44	6				32									
				B															
				B	1	1	0			0	0							0	
				2B	79	27	0			15	0							0	
				2P									21						
SOUTH CAROLINA (Averages)																			
				P					0.4				0.6						
				P					0				1.3						
VIRGINIA																			
				B	125	17	4	7		63		3						3	9

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	ClO	Cabbage Looper	R	Lr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	S	mC	Salmarsh Caterpillar	YAW	Yellowstriped Armyworm
U	Ultraviolet	BAW	Beet Armyworm	ECB	European Corn Borer	T	bH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	T	mH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	T	oB	Tobacco Budworm		

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

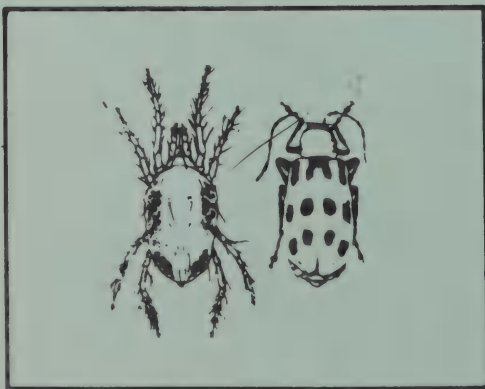
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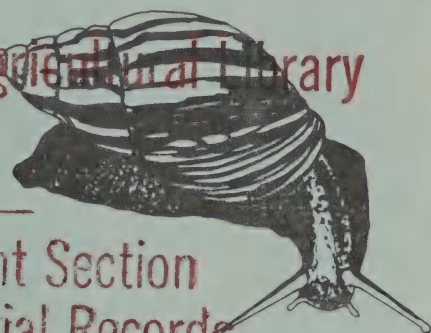
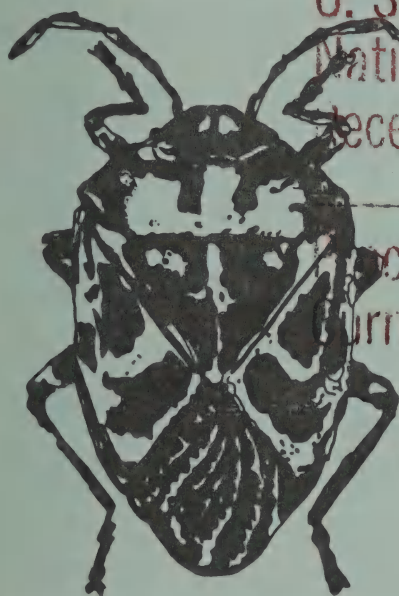
Vol. 5

No. 25

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Acurement Section
Current Serial Records



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

POTATO LEAFHOPPER adults unusually heavy on alfalfa in central Illinois. (p. 468).

MEXICAN BEAN BEETLE adults on beans much lighter than in 1979 in south-western area of Idaho. (p. 471).

Possible bronzing by EUROPEAN RED MITE in Ohio and problems with this species and TWOSPOTTED SPIDER MITE in west-central, central, and northwestern parts of South Carolina on fruit trees. (p. 472).

ARMYWORM adults 1,000+ per night in east-central area of Nebraska. (p. 477).

Detection

APPLE MAGGOT is new for Oregon. (p. 472).

New county records on page 476.

Some First Occurrences of the Season

SOUTHWESTERN CORN BORER on grain sorghum in Arizona. CORN EARWORM larvae on corn in Maryland. WESTERN CORN ROOTWORM adults on corn in Kansas. FALL ARMYWORM larvae on rice and soybeans in Arkansas. APPLE SCAB in Kansas.

Reports in this issue are for the week ending July 11 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON CORN SMUT (*Ustilago maydis*) - KANSAS - District> County= prevalence on corn: NC> Cloud, Republic, Mitchell, EC> Shawnee, SW> Finney, Haskell, Kearny, and Stevens= trace. (T. Sim, IV). GEORGIA - Area> prevalence per 25 corn [blister] plants June 30: SE> 6% in 2 fields. (K.L. Davenport).

COMMON MAIZE RUST (*Puccinia sorghi*) - GEORGIA - Area> prevalence/severity per 25 corn [host stage] plants June 30: SW> 13.3%/5% [silk to dent] in 6 fields (G. Galbreath) and SE> 12%/25% [blister] in 1 field (K.L. Davenport).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - District> County= status on sorghum: NC> Clay= in 1 field. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - Most common sorghum disease in central and eastern areas. Still common in many corn fields. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage (height)</u>
On sorghum:		
NC> Clay	trace to 35	vegetative (61-76 cm)
NC> Cloud	1	vegetative (46-51 cm)
NC> Republic	trace	vegetative (51-76 cm)
EC> Shawnee	trace	heading
On corn:		
NC> Clay	10-40	pretassel to tassel
NC> Cloud	15-35	pretassel to tassel
NC> Republic	trace to 1	pretassel to tassel
NC> Jewell	trace	pretassel to tassel
NC> Mitchell	3	pretassel to tassel

MISSOURI - District> County= status of maize dwarf mosaic virus and MAIZE CHLOROTIC DWARF VIRUS on corn: SE> Cape Girardeau= about 20-30% of plants in university variety trial plots (heavily infested with johnsongrass) severely stunted with shortened internodes and mosaic patterns on leaves, many infected plants showed typically reddened leaves; and SE and C areas> viral symptoms increased (0.1-1.0%) compared with normal years, probably due to severe drought stress, symptoms on 5-10 times more plants in non-irrigated fields compared with irrigated fields. (A. Foudin).

CORN LETHAL NECROSIS VIRUS - KANSAS - District> County= prevalence on corn: NW> Norton, NC> Phillips, Republic, and Cloud= trace to 8% in fields. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - KANSAS - Blacklight traps indicated second brood adult flights underway in southeastern and east-central areas. District> County= status: In southern area as far west as SC> Sedgwick= some pupation, and Kiowa= some pupation expected soon in Stafford area. (K.O. Bell, Jr., G.A. Salisbury). First generation on corn June 30 to July 2 (G.A. Salisbury et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SW> Ford	30	boot	1
SW> Gray	32	0.6 m tall	1
SW> Finney	trace to 6	0.6-2 m tall	4
SW> Haskell	20	1.4 m tall	1
SW> Seward	10	1.2 m tall	1
SC> Pratt	12	1.4 m tall	1
SC> Sedgwick	4-52	2 m tall to early silk	3
SC> Harvey	trace to 20	2 m tall to early tassel	2
SC> Kiowa	0-3	1.2 m tall to boot	3
SC> Edwards	0-70	1.2 m tall boot	2
SC> Pawnee	4-10	boot	2
SC> Stafford	none to 2	1.1 m tall to boot	2
WC> Logan	10	-	1
NW> Sheridan	20-30	-	-
NW> Thomas	20-30	-	2
C> Barton	40-85	boot to tassel	4

ARKANSAS - First European corn borer pupae of season. Area> status on corn week ending July 4: Statewide> first generation widespread but light on sweet and field corn. (G. Barnes). MINNESOTA - Area> status on corn: Statewide> still light, infested 4-6% of plants. Larval development in field corn expected to proceed normally with host plant and heat unit (388-500 (base 10°C)) accumulation as of June 29. Light first brood population indicated little or no problems. (D.D. Sreenivasam). OHIO - District> County= larvae (0.5-1.5 cm long) on corn [host stage]: C> Pickaway= trace (averaged 0.013 per stalk) in stalks of sweet corn [maturity] June 30, and SC> Scioto= trace (averaged 0.04 per stalk) in developing whorl of field corn [late whorl] July 1. (R. Wadleigh).

ILLINOIS - European corn borer egg laying seems over in southern and central areas, egg masses very few. Infestation rates heaviest in northwestern counties. District> County= status on corn week ending June 27: NW> Mercer, Rock Island, Whiteside, and Stephenson= some adults seen; Winnebago= fresh egg mass found, egg laying will probably continue for about 1 week (D. Bonham); ESE> Marion= 3rd instar larvae tunneled into leaf midribs (K. Black); and as far north as NW> Stephenson= 2nd instars present. (A.M. Agnello). Larvae per 100 plants and percentage of plants showing whorl feeding: NW> Rock Island= 28 and 28%, Whiteside= 108 and 24%, Stephenson= 48 and 24%, Jo Daviess= 12 and 24%, Carroll= 60 and 20%, Mercer= 8 and 20%, W> McDonough and E> Livingston= no data and 20%, and southern one-third of State> no data and at or below 16%. (D. Bonham).

WISCONSIN - European corn borer adults in blacklight traps comparable with those for same period in 1979. Area> adults in blacklight traps week ending June 27: S> adults decreased, C> adults held steady, and N> adults should increase. Larval development up to 2nd instar in more advanced areas, 1st instar predominant in most corn knee high or taller. District> County= status on corn: SW> Sauk= infestation up to 30%, few egg masses in corn [61 cm extended leaf height], conditions ideal for egg laying. (O.L. Lovett).

NORTH CAROLINA - Area> European corn borer status on corn: Most fields> damage generally on less than 5% of plants but infestations up to 25% of plants detected, no infestation levels above threshold level; southern and central Coastal Plains area> tassel damage expected to appear. (T. Hunt).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - ARIZONA - First of season. District> County= larvae per 30.5 row m of grain sorghum: SE> Pima= 3-4 at Marana. (C. Blair). KANSAS - District> County= development on corn, 1 field each, June 30 to July 1: SW> Seward= mostly 3rd and 4th instars, Gray= mostly 2nd and 3rd instars, and SC> Kiowa= mostly 3rd instars; no pupae or adults. Survey on corn June 30 to July 2 (G.A. Salisbury et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SW> Ford	0	boot	1
SW> Gray	4	0.6 m tall	1
SW> Finney	0	0.6-2 m tall	4
SW> Haskell	0	1.4 m tall	1
SW> Seward	35	1.2 m tall	1
SC> Pratt	trace	1.4 m tall	1
SC> Sedgwick	0	2 m tall to early silk	3
SC> Harvey	0	2 m tall to early tassel	2
SC> Kiowa	4-7	1.2 m tall to boot	3
SC> Edwards	0-1	1.2 m tall to boot	2
SC> Pawnee	0	boot	?
SC> Stafford	0-100	1.1 m tall to boot	2
WC> Logan	0	-	1
NW> Sheridan	0	-	-
NW> Thomas	0	-	2
C> Barton	0-5	boot to tassel	4

ARMYWORM (*Pseudaletia unipuncta*) - OHIO - District> County= larvae (1.5 cm long) on field corn [midwhorl] June 30: SC> Pike= in whorls. (R. Wadleigh). WEST VIRGINIA - District> County= larvae on corn [2 leaves] June 26: NW> Hancock, Brooke, and Ohio= infested 3%. (J.D. Hacker).

CORN EARWORM (*Heliothis zea*) - ILLINOIS - District> County= larvae on corn week ending June 27: E> Piatt= trace in whorls. (R. Sechriest). GEORGIA - Area> larvae (average) per 25 corn [host stage] plants in number of fields (f) June 30: SW> 1st to 6th instars 2-14 (7.4) [tassel to dent] in 8f, heavy rains helped fields (K.L. Davenport, G. Galbreath), SE> 1st to 6th instars 1-15 (4.6) [tassel to soft dough] in 10f (K.L. Davenport et al.), and C> 3rd to 6th instars 2-4 (2.7) [silk] in 3f (W.J. Roberts). OHIO - District> County= larvae on corn June 23: SE> Washington= 4th instar noted. (K. Essman). MARYLAND - First larvae of season. Area> status on sweet corn week ending June 27: Lower Eastern Shore counties> larvae noted. (R. Hochmuth).

BLACK CUTWORM (*Agrotis ipsilon*) - WEST VIRGINIA - District> County= larval averages per 100 plants in row of corn [2 leaves] June 26: NW> Hancock, Brooke, and Ohio= 1. (J.D. Hacker).

STALK BORER (*Papaipema nebris*) - ILLINOIS - District> County= status week ending June 27: NW> Carroll= 8.1 ha of no-till corn following no-till corn lost. (E. Kuebrich).

CORN ROOTWORMS (*Diabrotica* spp.) - KANSAS - First WESTERN CORN ROOTWORM (*Diabrotica virgifera*) adults of season. District> County= status on corn week ending July 3: C> Barton, SW> Gray, SC> Pawnee, and Edwards= larvae trace, destroyed about 50% of roots in 1 field in last county. (G.A. Salisbury). ILLINOIS - District> County= larvae of probably both NORTHERN CORN ROOTWORM (*Diabrotica*

longicornis) and WESTERN CORN ROOTWORM (*Diabrotica virgifera*) week ending June 27: E> Platt (R. Sechrist) and NW> Lee= found in roots (D. Kuhlman) and E> Vermilion= averaged 20+ per plant (A.M. Agnello). OHIO - District> County= SOUTHERN CORN ROOTWORM (*Diabrotica undecimpunctata howardi*) adult on sweet corn [maturity] June 30: C> Pickaway= 1 fed on tassel. (R. Wadleigh).

GRAPE COLASPIS (*Colaspis brunnea*) - KENTUCKY - District> County= adults on corn week of July 3: Bluegrass> Washington= feeding damage moderate to leaves of about 1 ha of seedling corn in 20-ha field. (P.E. Sloderbeck).

YELLOW SUGARCANE APHID (*Sipha flava*) - ARKANSAS - Area> counts per sorghum plant week ending June 20: C> at controllable levels, 1,000+. (G. Barnes).

CORN LEAF APHID (*Rhopalosiphum maidis*) - GEORGIA - Area> counts per 25 corn [silk to blister] plants June 30: SW> 100 in 1 field. (G. Galbreath). ILLINOIS - Colonies established in southern area on sorghum. District> County= counts per 100 corn plants week ending June 27: SE> Saline= 1 (C. Bremer) and C> Mason= 4 (A.M. Agnello).

GREENBUG (*Schizaphis graminum*) - COLORADO - District> County= counts on sorghum [seedling] week of June 24: SE> Bent, Otero, and Prowers= averaged 4 per leaf on 10-100%, no damage noticed. (F.C. Schweissing). ARKANSAS - Area> status on grain sorghum week ending June 20: Statewide> reddening severe in about 50% of fields. (G. Barnes).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 2: ESE> Coles= 90%/2-3% [one-half kernel], Cumberland= trace/trace [three-fourths kernel], Jasper= 100%/3-5% [three-fourths kernel], Lawrence= trace/trace [full kernel], Crawford= 100%/1-3% [three-fourths kernel], Clark= 100%/2% [one-half kernel], Edgar= 100%/trace to 1% [three-fourths kernel], Effingham= 100%/5% [three-fourths kernel], Clay= 100%/3% [full kernel], Marion= trace/trace [milk], SE> Wayne= 100%/2% [full kernel], Jefferson= 100%/2-4% [early milk], and SW> Washington= 50%/trace [milk]. (E.G. Jordan).

SPECKLED LEAF BLOTCH (*Septoria tritici*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 2: ESE> Coles= 100%/5% [one-half kernel], Cumberland= 100%/8% [three-fourths kernel], Jasper= 100%/10% [three-fourths kernel], Lawrence= 100%/12% [full kernel], Crawford= 100%/8% [three-fourths kernel], Clark= 100%/10% [one-half kernel], Edgar= 100%/8% [three-fourths kernel], Effingham= 100%/12% [three-fourths kernel], Clay= 100%/15% [full kernel], Marion= 100%/4% [milk], SE> Wayne= 100%/12% [full kernel], Jefferson= 100%/10% [early milk], and SW> Washington= 100%/8% [milk]. (E.G. Jordan).

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 2: ESE> Coles= trace/trace [one-half kernel], Cumberland= 20%/trace [three-fourths kernel], Jasper= 50%/trace [three-fourths kernel], Lawrence= 100%/2% [full kernel], Crawford= 25%/trace [three-fourths kernel], Clark= 20%/trace [one-half kernel], Edgar= 25%/trace [three-fourths kernel], Effingham= wheat powdery mildew 100%/trace [three-fourths kernel], Clay= 50%/

trace [full kernel], Marion= trace/trace [milk], SE> Wayne= trace/trace [full kernel], Jefferson= trace/trace [early milk], and SW> Washington= trace/trace [milk]. (E.G. Jordan).

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - ILLINOIS - District> County= prevalence on wheat [host stage] in number of commercial fields (f) week of June 2: ESE> Coles, Cumberland, Jasper, Lawrence, Crawford, Clark, Edgar, Effingham, Clay, and Marion= trace to 1% [one-half kernel to milk] in 10f, SE> Wayne and Jefferson= trace [full kernel to early milk] in 2f, and SW> Washington= trace [milk] in 1f. (E.G. Jordan).

TAN SPOT (*Pyrenophora trichostoma*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] in number of commercial fields (f) week of June 2: ESE> Coles, Cumberland, Jasper, Lawrence, Crawford, Clark, Edgar, Effingham, Clay, and Marion= trace to 50%/trace to 20% [one-half kernel to early milk] in 10f, SE> Wayne and Jefferson= 40-50%/trace [full kernel to early milk] in 2f, and SW> Washington= trace/trace [milk] in 1f. (E.G. Jordan).

LOOSE SMUT (*Ustilago nuda*) - ILLINOIS - District> County= prevalence on wheat [host stage] heads in 1 commercial field each, week of June 2: ESE> Lawrence= trace [full kernel], Clay= trace [full kernel], and Marion= trace [milk]. (E.G. Jordan).

SCAB (*Fusarium* spp.) - ILLINOIS - District> County= prevalence on wheat [host stage] heads in 1 commercial field each, week of June 2: ESE> Coles= trace [one-half kernel], Cumberland= trace [three-fourths kernel], Jasper= 2% [three-fourths kernel], Lawrence= 3% [full kernel], Crawford= 1% [three-fourths kernel], Clark= trace [one-half kernel], Edgar= trace [three-fourths kernel], Effingham= 1% [three-fourths kernel], Clay= 4% [full kernel], Marion= 3% [milk], SE> Wayne= 3% [full kernel], Jefferson= 5% [early milk], and SW> Washington= 7% [milk]. (E.G. Jordan). WISCONSIN - District> County= prevalence on small grains week ending June 27: SC> Columbia= trace. (O.L. Lovett).

BARLEY YELLOW DWARF VIRUS - ILLINOIS - District> County= prevalence on wheat [host stage] in number of commercial fields (f) week of June 2: ESE> Coles, Cumberland, Jasper, Lawrence, Crawford, Clark, Edgar, Effingham, Clay, and Marion= trace to 1% [one-half kernel to milk] in 10f, SE> Wayne and Jefferson= trace [full kernel to early milk] in 2f, and SW> Washington= trace [milk] in 1f. (E.G. Jordan).

INSECTS

ARMYWORM (*Pseudaletia unipuncta*) - WISCONSIN - Adult flight heavy, night of June 25. Larval activity minimal. Lush grasses provide optimum egg-laying sites. Many sites in grain, pea, and corn fields. (O.L. Lovett). NORTH DAKOTA - District> County= status week ending July 3: EC> Cass= larvae, 1 cm long, trace (averaged less than 1 per 0.09 sq m) in barley field in eastern area, also in another location in roadside margin of small grain field. (C.G. Scholl).

FALL ARMYWORM (*Spodoptera frugiperda*) - ARKANSAS - First infestations of season. District> County= status on rice June 30: EC> Prairie and ME> White= destroyed stands in economic numbers in fields. (G. Barnes).

POTATO LEAFHOPPER (*Empoasca fabae*) - OHIO - District> County= adults per sweep of oats [all ears out of sheath] July 1: SC> Scioto= 0.45. (R. Wadleigh).

TURF, PASTURES, RANGELAND

INSECTS

A DIASPIDID SCALE (*Odonaspis ruthae*) - FLORIDA - New county record. District County= collection data from *Cynodon dactylon* (bermudagrass): NW> Escambia= in State park at Fort Pickens, May 6, 1980, by D. Reese, R. Clark, and E. Graham, determined by A.B. Hamon. (A.B. Hamon).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Appeared to be only foliar pathogen active on alfalfa. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
NC> Clay	not seen	-	30-38
NC> Cloud	100	1	61
NC> Republic	40	0	76
NC> Mitchell	70-100	1	71-76
NC> Ottawa	trace	0	38
NE> Pottawatomie	trace to 10	0	15-30
EC> Osage	100	0	38

PHYTOPHTHORA ROOT ROT (*Phytophthora megasperma*) - WISCONSIN - District> County= status on alfalfa week ending June 27: SE> Racine= very severe on 'Agate'; supposedly highly resistant in field. (O.L. Lovett).

INSECTS

ALFALFA WEEVIL (*Hypera postica*) - WISCONSIN - District> County= status on forage legumes week ending June 27: EC> Door= problems reported, and southern one-half area> adults from spring larval populations began to appear. (O.L. Lovett).

EGYPTIAN ALFALFA WEEVIL (*Hypera brunneipennis*) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: SE> Graham= larvae 100 and adults 10, and C> Pinal= larvae 4. (L. Blackledge et al.).

POTATO LEAFHOPPER (*Empoasca fabae*) - ILLINOIS - Sweep counts unusually heavy in fields in central region, although no yellowing noticed. District> County= counts per sweep of alfalfa week ending June 27: W> Fulton, C> Mason, and Logan= 5; W> McDonough= 4; WSW> Cass= 3; and Morgan= 1. (D. Bonham).

WISCONSIN - Area> counts per 10 sweeps of alfalfa week ending June 27: SC, SW, and C> 2 in many second growth fields, damage not evident. (O.L. Lovett). KENTUCKY - Still problem in most alfalfa fields week of July 3, except where just recently harvested or already treated. (P.E. Sloderbeck). WEST VIRGINIA - District> County= adults per sweep of alfalfa [23 cm tall] June 5: E> Jefferson= averaged 0.26. (C. Stuart). OHIO - District> County= counts per sweep of alfalfa [38 cm tall] week of July 3: C> Pickaway= adults 1.3 (R. Wadleigh), nymphs few (J. Flessel).

PEA APHID (*Acyrtosiphon pisum*) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending July 3: SW> Yuma= 100-300 and SE> Graham= 50 (L. Blackledge et al.); currently: SW> Yuma= 60-100 (D. Danielson et al.). COLORADO - Area> counts per 100 sweeps of forage legumes week of June 24: SE> 100-5,000, no damage. (F.C. Schweissing). MINNESOTA - Nymphs increased several-fold, especially in west-central and central areas. Damage in several fields. If current dry and hot conditions continue, early second-growth alfalfa will show heavy damage. Area> averages per 100 sweeps of alfalfa: WC> 1,000, C> 4,500, EC> 265, SW> 700, SC> 165, and SE> 128. (D.D. Sreenivasam).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending July 3: SW> Yuma= 100 (L. Blackledge et al.); currently: SW> Yuma= 200 (D. Danielson et al.). COLORADO - District> County= counts per 100 sweeps of alfalfa week of June 24: SE> Crowley= 0-200. (F.C. Schweissing). IDAHO - District> County= average per alfalfa stem June 26: SW> Canyon= 10 in 121-ha field south of Nampa (H.W. Homan); forage legumes June 9-19 (R.M. Bitner, C.R. Baird):

District> County	Counts per sweep	Number of fields	City
SW> Canyon	0.03-4.0	14	Caldwell
SW> Canyon	0.15	2	Nampa
SW> Washington	0.1-0.5	5	Midvale
SW> Owyhee	0.13	1	Homedale
SW> Gem	0.02	1	Emmett
SW> Ada	0.06	1	Meridian

THREECORNERED ALFALFA HOPPER (*Spissistilus festinus*) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: C> Maricopa= adults 34, Pinal= adults 280, SW> Yuma= adults 20-180, and SE> Graham= larvae 10 and adults 30-200. (D. Danielson et al.).

LYGUS BUGS (*Lygus* spp.) - ARIZONA - District> County= counts per 100 sweeps of alfalfa week ending July 3: C> Maricopa= nymphs 4 and adults 32-44, C> Pinal= nymphs 92 and adults 117-190, SW> Yuma= nymphs 20 and adults 15-190, and SE> Graham= adults 40 (L. Blackledge et al.); currently: C> Maricopa= adults 52-130, Pinal= adults 420, SW> Yuma= nymphs 8-500 and adults 20-130, and SE> Graham= nymphs and adults 110-1,190. (D. Danielson et al.). COLORADO - District> County= counts per 100 sweeps of alfalfa week of June 24: SE> Crowley= 0-200. (F.C. Schweissing).

GRASSHOPPERS - WISCONSIN - District> County= nymphs on forage legumes week ending June 27: C> Adams= severe, appears to be gradual increase over past several years. (O.L. Lovett).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*) - WISCONSIN - Started to develop on soybean roots. District> County= status week ending June 27: SE> Kenosha, Racine, Walworth, and SC> Rock= in some fields. (O.L. Lovett).

BACTERIAL PUSTULE (*Xanthomonas phaseoli* f.sp. *sojensis*) - KANSAS - District> County= prevalence on soybeans: NC> Cloud= trace in I field and Clay, Republic, Mitchell, EC> Shawnee, Osage, Coffey, Lyon, Chase, and Morris= none. (T. Sim, IV).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - OHIO - Soybeans June 17 to July 1 (R. Wadleigh):

District> County	Counts per sweep		Host stage
	Tarvae	adults	
C> Knox	0	0.02	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
C> Knox	0	0.01	1 flower at any node on main stem
C> Licking	0	0.03	fully developed trifoliolate leaf at node above unifoliolate nodes
C> Licking	0	0.2	3 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
C> Licking	0.1	0.09	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
C> Licking	0.48	0.07	5 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
C> Pickaway	0	0.02	not reported
C> Pickaway	0.12	0.04	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
C> Ross	0	0.19	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
C> Ross	0.90	0.09	7 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SC> Highland	0	0	fully developed leaves at unifoliolate nodes
SC> Highland	0	0	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SC> Pike	0.42	0.08	1 flower at any node on main stem
SC> Pike	0	0	fully developed leaves at unifoliolate nodes
SC> Scioto	0.25	0.25	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SW> Preble	0	0.01	3 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SW> Preble	0.37	0	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SW> Montgomery	0	0.05	not reported
SW> Montgomery	0.43	0.01	4 nodes on main stem with fully developed leaves beginning with unifoliolate nodes

WEST VIRGINIA - District> County= Mexican bean beetle on soybeans: SW> Mason= egg masses few, average percent defoliation less than 10%. (C. Stuart).

GRAPE COLASPIS (Colaspis brunnea) - ILLINOIS - District> County= status on soybeans week ending June 27: ESE> Marion= plants yellowed and dead, especially in beans following clover. Problems compounded by SEEDLING BLIGHT organisms. (K. Black).

FALL ARMYWORM (Spodoptera frugiperda) - ARKANSAS - First of season. Area> larvae on soybeans week ending July 3: Counties up Arkansas River Valley and in Red River Valley> destroyed stands. (G. Barnes).

POTATO LEAFHOPPER (*Empoasca fabae*) - OHIO - District> County= counts per sweep of soybeans [4 nodes on main stem with fully developed leaves beginning with unifoliate nodes] June 30: SC> Scioto= 0.4. (R. Wadleigh).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - ARKANSAS - Punctured squares less than 10,000 per 0.4 ha in 17 of 1,284 cotton fields week ending July 4. (G. Barnes). SOUTH CAROLINA - District> County= status on cotton June 27: WC> Aiken and S> Barnwell= trap catches increased to 50+ per trap in some areas. Average damaged squares: C> Calhoun= up to 30% in few fields (J.W. Chapin, E.L. Bull), Clarendon= 1-2%, Sumter= 1%, and NC> Kershaw= 0-2% (D.G. Manley).

BOLLWORMS (*Heliothis* spp.) - ARKANSAS - Average eggs, larvae, and damaged cotton squares per 0.4 ha in number of fields (f) of 1,284 fields June 25 to July 1: 1,437 in 248f, 760 in 122f, and fewer than 7,000 in 125f. (G. Barnes). SOUTH CAROLINA - District> County= *Heliothis* spp. eggs, small larvae, and damaged squares per 100 cotton plants June 27: WC> Aiken and S> Barnwell= averaged 8, no data, and no data with TOBACCO BUDWORM (*Heliothis virescens*) adults heavier in traps (J.W. Chapin); C> Clarendon= 5-7, 4-5%, and up to 10%; Sumter= 5-7, 4-6%, 4-6%; and NC> Kershaw= 4-5, 2-3%, and up to 8% (D.G. Manley).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - OHIO - District> County= larvae and adults per potato [host height] plant week of July 4: C> Pickaway= larvae 3 and 2.4 and adults 0.5 and 3.8 [0.5 m tall] in 2 fields, SC> Adams= both 0.1 [0.6 m tall] in garden July 1, and Scioto= both less than 0.1 [0.3 m tall] in garden; on tomatoes [up to 10 cm in diameter]: C> Pickaway= both 0.2. Defoliation not more than 5% in any of above fields. (R. Wadleigh). WISCONSIN - Area> half-grown larvae on potatoes week ending June 27: Central Sands> light on edge of several fields. (O.L. Lovett).

POTATO APHID (*Macrosiphum euphorbiae*) - OHIO - District> County= counts per leaf on commercial potatoes June 30: C> Pickaway= 1.2. Pink and green specimens present. (R. Wadleigh).

BEANS AND PEAS

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - IDAHO - District> County= status on beans June 16: SW> Ada= first adults at Boise, population much lighter than in 1979. (R.C. Saunders).

GENERAL VEGETABLES

INSECTS

BEET LEAFMINER (*Pegomya hyoscyami*) - NORTH DAKOTA - District> County= status on garden beets week ending July 3: SW> Stark= severe at Dickinson, and EC> Cass= last major damage in June 1976 at Fargo and first severe injury in September 1975 in same area. (C.G. Scholl).

DECIDUOUS FRUITS AND NUTS

DISEASES

APPLE SCAB (*Venturia inaequalis*) - KANSAS - First of season. District> County= status in garden July 10: NE> Pottawatomie= seen. (T. Sim, IV).

FIRE BLIGHT (*Erwinia amylovora*) - NEW MEXICO - District> County= status on pears: NW> Rio Arriba= serious on terminal growth in several orchards and home plantings in Espanola area. (C. Heninger).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - WASHINGTON - District> County= adult averages per trap June 23: NE> Spokane= 11.3 at Spokane and 1.2 in Greenbluff area. (G. Kupferman). IDAHO - District> County= adults in pheromone traps June 1-22: SC> Twin Falls= 37 on apple trees at Twin Falls (R.L. Stoltz); June 18 to July 1: N> Latah= 27 males at Moscow (D.R. Scott).

LESSER PEACHTREE BORER (*Synanthedon pictipes*) - SOUTH CAROLINA - District> County= adults (averages) of this species and PEACHTREE BORER (*Synanthedon exitiosa*), respectively, per pheromone trap in peach orchards June 13-19: WC> Edgefield, Saluda, and C> Lexington= 0-51 (5) and no data (1) (C.S. Gorsuch). Week ending June 26: C> Lexington, WC> Saluda, and Edgefield= 0-35 (6) and no data (1). (B. Hallman, C.S. Gorsuch).

APPLE MAGGOT (*Rhagoletis pomonella*) - OREGON - New State record. County= collection data from *Malus sylvestris* (apple): Multnomah= larvae collected from dooryard apples in southeastern Portland, September 24, 1979, by D. Adams and October 3, 1979, by R.L. Penrose; larvae reared to adults, male determined by R.L. Westcott, confirmed by R. Foote. Infested 3 trees. Problem noted by owner in 1977. (D. Adams et al.). About 1,500 traps placed by urban grid system in greater Portland metropolitan area including Multnomah and parts of Washington and Clackamas Counties. Trap density ranged from about 200 per 3 sq km in 3-sq-km area of initial discovery to 1 per 3 sq km in remainder of tri-county area. Columbia River Gorge area, and commercial apple areas in Hood River County at Hood River, Umatilla County at Milton-Freewater, and Jackson County in Rogue River Valley= traps deployed. (J. Gutzka, R. Penrose). All trap results negative to July 11 (D. Kimberling et al.) except for find below. New county record for Clackamas= 1 large female trapped on apple tree at Milwaukie, July 11, 1980, by M. West, determined by R.L. Westcott. Female trapped about 11 km south of original find. (M. West).

EUROPEAN RED MITE (*Panonychus ulmi*) - OHIO - Motile populations increased 4 times over June 20 level to 3.7 per leaf; eggs 13 per leaf; localized, spotty bronzing of leaves expected by July 2, if population continues to increase at present rate. (R.W. Wadleigh). SOUTH CAROLINA - District> County= status of this species and TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) week ending June 27: WC> Edgefield, Saluda, and C> Lexington= bronzing severe on peach leaves and mites on fruit in orchards, NW> Oconee and Pickens= localized outbreak of 10+ per leaf in apple orchards. Recent statewide rains should help reduce populations. (C.S. Gorsuch).

BLACKMARGINED APHID (*Monellia caryella*) - ARIZONA - District> County= nymphs and adults per 100 leaves of pecans: SE> Pima= 247 at Sahuarita. (L. Eiland).

SMALL FRUITS

INSECTS

A LEAFHOPPER (*Erythroneura comes*) - OHIO - Nymphs averaged 1.3 per leaf on 'Reisling' and 6 per leaf on 'Chardonnay' grapes week of July 3. (K. Miller).

ORNAMENTALS

INSECTS

A DIASPIDID SCALE (*Abgrallaspis howardi*) - FLORIDA - New county record. District> County= collection data from *Persea* sp. (bay) plant: S> Indian River= at residence at Vero Beach, April 24, 1980, by R. Kendrick, determined by A.B. Hamon. Plant growing in wild. (R. Kendrick).

A DIASPIDID SCALE (*Aonidiella aurantii*) - FLORIDA - New county record. District> County= collection data from *Ligustrum japonicum* (wax-leaf privet) plants: S> Brevard= adults moderate, 6 on leaves along road near Port Canaveral, May 7, 1980, by R. Burns and P. Henderson, determined by A.B. Hamon. Plants growing in wild. (A.B. Hamon).

A DIASPIDID SCALE (*Gymnaspidium aechmeae*) - FLORIDA - New county record. District> County= collection data from *Aechmea* sp. (bromeliad): S> Glades= from plants in nursery at Palmdale, May 9, 1980, by C. Nelson, determined by A.B. Hamon. Plants in nursery 1+ years. (C. Nelson).

FOREST AND SHADE TREES

INSECTS

A DIASPIDID SCALE (*Acutaspis perseae*) - FLORIDA - New county record. District> County= collection data from *Juniperus virginiana* (eastern redcedar): NW> Franklin= adults from trees at residence at Eastpoint, March 25, 1980, by Q. Anglin, determined by A.B. Hamon. Trees 7.6 m tall and well established. (Q. Anglin).

A DIASPIDID SCALE (*Diaspidiotus coniferarum*) - FLORIDA - New county record. District> County= collection data from *Juniperus virginiana* (eastern redcedar): NE> Taylor= adults from tree at Steinhatchee, April 16, 1980, by Q. Anglin, determined by A.B. Hamon. Tree 7.6-9.1 m tall and there for many years. (A.B. Hamon).

BLACK PINELEAF SCALE (*Nuculaspis californica*) - FLORIDA - New county record. District> County= collection data from *Pinus* sp. (pine): NW> Franklin= adults on needles of tree at Carrabelle, March 25, 1980, collected by Q. Anglin, determined by A.B. Hamon. Native tree about 8-10 years old. (Q. Anglin).

A DIASPIDID SCALE (*Clavaspis herculeanus*) - FLORIDA - New county record. District> County= collection data from *Avicennia germinans* (black mangrove): S> Broward= nymphs and adults collected on plant in State park at Dania, May 15, 1980, by M. McDonald and D. Clinton, determined by A.B. Hamon. Tree established along roadside for some time. (A.B. Hamon).

A DIASPIDID SCALE (*Hemiberlesia diffinis*) - FLORIDA - New county record. District> County= collection data from Fraxinus caroliniana (Carolina ash) tree: S> St. Lucie= from stems in nursery at White City, April 2, 1980, by E. Campbell, determined by A.B. Hamon. Plants growing in wild. (E. Campbell).

LATANIA SCALE (*Hemiberlesia lataniae*) - FLORIDA - New county record. District> County= collection data from Acer rubrum (red maple): C> Citrus= adults on bark of tree along roadside near Crystal River, May 21, 1980, by R. Phillips, determined by A.B. Hamon. Tree growing in wild. (A.B. Hamon).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A EULOPHID WASP (*Tetrastichus incertus*) - WISCONSIN - District> County= status of this parasite of Hypera postica (alfalfa weevil) week ending June 27: EC> Fond du Lac= additional release underway, and Door= release anticipated June 27. (O.L. Lovett).

AN ICHNEUMONID WASP (*Bathyplectes curculionis*) - WISCONSIN - District> County= status week ending June 27: WC> La Crosse and Pepin= cocoons recovered from Hypera postica (alfalfa weevil) larvae. (O.L. Lovett).

A WEEVIL (*Rhinocyllus conicus*) - NORTH DAKOTA - District> County= status on Carduus nutans (musk thistle) week ending July 3: NE> Walsh and Cavalier= successfully overwintered in stands near Park River and Langdon, respectively; adults from 1979 releases found in late May 1980, eggs also on plants. (Balsbaugh, Frye).

AN ERIOPHYID MITE (*Eriophyes chondrillae*) - WASHINGTON - District> County= status on Chondrilla juncea (rush skeletonweed) June 30: NE> Spokane= released in southern area in 1979, successfully overwintered and established, numerous galls evident. (G. Piper).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - NEW MEXICO - District> County= status: NW> Santa Fe= problems serious on farmland in northern area (C. Heninger) and Rio Arriba= defoliated fruit trees and shrubbery in home plantings south of Espanola (G. Nielsen).

GYPSY MOTH (*Lymantria dispar*) - WEST VIRGINIA - District> County= larvae collected under burlap bands on chestnut oak June 23: E> Jefferson= 5. (A.R. Miller). DELAWARE - District> County= pupal status June 24: N> New Castle= first collection under tarpaper traps. (D. Campese).

JAPANESE BEETLE (*Popillia japonica*) - SOUTH CAROLINA - District> County= adults week ending June 23-26: NW> Pickens= damage significant to sweet corn silks in garden; and clumps of 10-20 on muscadine grapes (R.P. Griffin); general in peach orchard at agricultural experiment station at Simpson, leaf damage and some fruit damage on ripening varieties evident (C.S. Gorsuch). NORTH CAROLINA - Area> status on soybeans: Across Piedmont> defoliation 10-15% in scattered fields, defoliation 20% in spots to 0.10 ha along hedgerows, woods, or fallow fields. Damage expected to subside by early August. (T. Hunt).

WEST VIRGINIA - District> County= Japanese beetle adults on rose June 19: SW> Kanawha= first sighting of feeding. (J.D. Hacker). OHIO - First adults of season. District> County= adults June 19: C> Franklin= adults in pheromone traps at airport at Port Columbus. (P. Turner). On corn [host stage] June 30: SC> Pike= few on widely separated plants, fed on leaves inside developing whorls in 2 field corn [late whorl] fields, and Scioto= 0.2 per ear, fed on leaves and silk of developing ears in sweet corn [silk] field. Per potato [0.6 m tall] plant July 1: SC> Adams= 0.1, fed on foliage. (R. Wadleigh).

MEDITERRANEAN FRUIT FLY (*Ceratitis capitata*) - CALIFORNIA - New county record. District> County= collection data: Central Coast> Santa Clara= 2 males in Jackson trap on citrus tree in yard at San Jose, June 5, 1980, by Maggi and Dufour (initials not given); 2 males trapped on orange tree July 3. Total of 23 flies, including 1 female, trapped July 7-8 in Santa Clara, just outside of San Jose city limits, less than 7 km northwest of first site. All from Jackson traps on orange, apricot, loquat, lemon, and plum trees on 6 properties in residential area. One larva taken from orange on another property in same area July 8 by C. Hewitt, L. Ahlberg, and D. Witjman. All determined by K. Corwin. Delimiting surveys and eradication underway. Bait spot treatments applied to hosts, soil treated under fruiting tree where larva found, and sterile flies ground released in 20+ sq km core area around detection sites. Aerial releases of sterile pupae planned for late July. Southern California> Los Angeles= no finds since June 26, eradication continued. (F. Philips, K. Corwin).

MORMON CRICKET (*Anabrus simplex*) - UTAH - District> County= status week of July 3: E> Daggett= baits aerially applied over 182 ha in Antelope Flat area; C> Millard= 121 ha of forest service land baited 16 km north of Holden; Juab= 262 ha of Bureau of Land Management land baited near Mona; Tintic Mountains area> heavy population (16 km long x 3 km wide) southwest of Eureka; and S> Iron and Washington= heavy nearly every year on range area south of Enterprise. (T. Crowe, S. Little).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= larval counts on cotton week ending July 3: C> Maricopa= 2 per 50 sweeps (C. Chandler et al.); currently: C> Maricopa= 1 per 100 sweeps at Buckeye and 2 per 100 blooms at Laveen (C. Mullis et al.). Adults per pheromone trap per day week ending July 3 and currently: C> Maricopa= 0-28 and 3-18, Pinal= 9-10 and 19-25, and SW> Yuma= 10-36 and 33 (C. Chandler et al.).

DETECTION

NEW STATE RECORD

INSECTS

APPLE MAGGOT (Rhagoletis pomonella) - OREGON - Multnomah County. (p. 472).

NEW COUNTY RECORDS

INSECTS

APPLE MAGGOT (Rhagoletis pomonella) - OREGON - Clackamas. (p. 472).

BLACK PINELEAF SCALE (Nuculaspis californica) - FLORIDA - Franklin. (p. 473)

A DIASPIDID SCALE (Abgrallaspis howardi) - FLORIDA - Indian River. (p. 473).

A DIASPIDID SCALE (Acutaspis perseae) - FLORIDA - Franklin. (p. 473).

A DIASPIDID SCALE (Aonidiella aurantii) - FLORIDA - Brevard. (p. 473).

A DIASPIDID SCALE (Clavaspis herculeanus) - FLORIDA - Broward. (p. 473).

A DIASPIDID SCALE (Diaspidiotus coniferarum) - FLORIDA - Taylor. (p. 473).

A DIASPIDID SCALE (Gymnaspis aechmeae) - FLORIDA - Glades. (p. 473).

A DIASPIDID SCALE (Hemiberlesia diffinis) - FLORIDA - St. Lucie. (p. 474).

A DIASPIDID SCALE (Odonaspis ruthae) - FLORIDA - Escambia. (p. 468).

LATANIA SCALE (Hemiberlesia lataniae) - FLORIDA - Citrus. (p. 474).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - Santa Clara. (p. 475).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAW	BCw	CEw	CLO	COM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
																		157	4
Mesa 6/30-7/6																			
INDIANA																			
		B		1			4	2										10	
La Grange 7/2-7																			
		B				0	0		8	20	0								
Tippecanoe 7/3-9																			
KANSAS																			
		B		49			80			0	0								0
Humboldt 6/30-7/6																			
		B		3			3			6	4								7
Rossville 7/11																			
KENTUCKY																			
		B		1															
Elkton 7/8																			
		B		234		4		1		3					1			6	
Lexington 7/2-8																			
MARYLAND (Counties)																			
		B		15		5												3	
Baltimore 6/30-7/2																			
		B		416		38												9	
Caroline 6/28-7/2																			
MISSISSIPPI																			
		2B		131	3	22	183	36		19	2			1				11	20
Stoneville 6/27-7/3 24-38																			
NEBRASKA																			
		B		7339		83				40								43	
Aurora 7/3-9																			
		B		313		23				73						5		2	
Clay Center 7/4-10																			
NORTH DAKOTA																			
		B		2		7													
Bismarck 6/27,7/1																			
		B		2		13													
Bottineau 6/26,7/1																			
SOUTH CAROLINA (Averages)																			
		P							0.8										
Long Creek 6/27-7/3																			
		P							1.7										
Mountain Rest 6/27-7/3																			
WISCONSIN																			
		B		114		0				0								0	
Lancaster 7/1-9																			
		B		52		4				52									
Racine 7/1-7																			
		2P							8										
Dane County 6/29-7/9																			
		P							0										
Wood County 7/1-7																			
ABBREVIATIONS:																			
B	Blacklight	ACw	Army Cutworm	CLO	Cabbage Looper			RLr	Redbanded Leafroller					VCw	Variegated Cutworm				
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth			SmC	Saltmarsh Caterpillar					YAw	Yellowstriped Armyworm				
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer			TbH	Tobacco Hornworm										
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm			TmH	Tomato Hornworm										
		CEw	Corn Earworm	GCw	Granulate Cutworm			ToB	Tobacco Budworm										

METRIC CONVERSION

1 cm	=	0.393701 in
1 m	=	3.28084 ft = 1.09361 yd
1 km	=	0.621371 mi
1 sq cm	=	0.155000 sq in
1 sq m	=	10.7639 sq ft = 1.19599 sq yd
1 ha	=	2.47104 acres
1 sq km	=	0.386101 sq mi
1 kg	=	2.20462 lb
1 t (metric ton)	=	1.10231 short ton
1 kg/ha	=	0.892183 lb/acre
1 t/ha	=	0.446091 ton/acre

UNITED STATES DEPARTMENT OF AGRICULTURE
Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

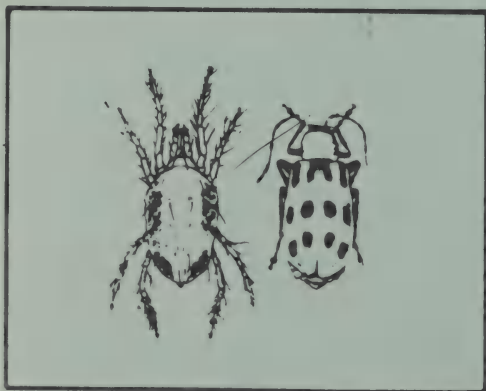
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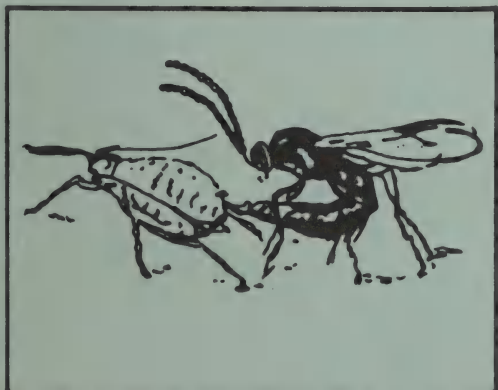
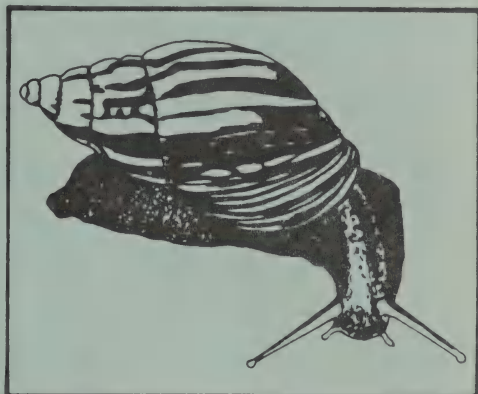
Cooperative Plant Pest Report

July 25, 1980

Vol. 5

No. 26

(P)



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER infestations in corn 25% or more in parts of southeastern, southern, and central Nebraska, east-central Minnesota, and northeastern and north-central Indiana. (p. 482).

CORN ROOTWORM larval damage to corn in northeastern Kansas much greater than in 1979. Damage severe to roots in northeastern area of Nebraska. (p. 483).

Damage by WHEAT LEAF RUST could be significant in Pacific Northwest. (p. 484).

BARLEY LEAF RUST may have overwintered in central Atlantic region. (p. 485).

STRIPE RUST losses could be heavy in Pacific Northwest on late-planted wheat cultivars with temperature-sensitive resistance. (p. 485).

POTATO LEAFHOPPER 4 or more per sweep of alfalfa in parts of Missouri, Illinois, and Maryland. (p. 488).

Detection

New State records include STRIPE RUST in Illinois (p. 485) and PINWOOD NEMATODE in Minnesota and WEST Virginia. (p. 491).

For new county records see page 493.

Some First Occurrences of the Season

COMMON MAIZE RUST in Iowa. YELLOWSTRIPED ARMYWORM and WESTERN CORN ROOTWORM adults in Indiana. JAPANESE BEETLE adults in New Hampshire.

Reports in this issue are for the week ending July 18 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON MAIZE RUST (*Puccinia sorghi*) - IOWA - First of season. District> County= prevalence/severity on corn: EC> Linn, Jones, and NE> Black Hawk= less than 5%/trace. (D.J. Williams). OHIO - District> County= prevalence/severity on lower leaves of corn [10-12 leaf] week of July 3: C> Marion= 50-75%/1% in 1 commercial field. (R.E. Hite).

ANTHRACNOSE LEAF BLIGHT (*Colletotrichum graminicola*) - OHIO - District> County= prevalence/severity on corn [host stage]: SE> Perry= 5-50%/trace [4-5 leaf] on lower leaves in 3 fields week ending June 27 and WC> Logan= 30%/trace [5-6 leaf] in 1 commercial field week of July 3. (R.E. Hite).

YELLOW LEAF BLIGHT (*Mycosphaerella* (*Phyllosticta*) *zeae-maydis**) - MISSOURI . District> County= prevalence of *Phyllosticta maydis* on corn: SE> New Madrid, Mississippi, Stoddard= 40-90%; and SC> Bollinger, SE> Cape Girardeau, and Pemiscot= 20-40%. Severity trace (less than 0.1% of leaf area involved) in all fields, except for varietal trial plot in SE> New Madrid County, which had 2-3% severity. (A. Foudin).

CORN EYESPOT (*Kabatiella zeae*) - OHIO - District> County= prevalence/severity on corn [4-5 leaf] leaves week ending June 27: SE> Perry= 5-90%/trace in 3 commercial fields. (R.E. Hite).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - KANSAS - Second brood adult flights underway in eastern and probably eastern south-central areas week ending July 11. District> County= main instars: C> Barton= 0, SC> Stafford= 5th, Pratt= 5th, Kiowa= 5th, Edwards= 5th, Pawnee= 4th and 5th, SW> Ford= 4th, Gray= 5th, Stevens= 4th and 5th, Morton= 5th, Finney= 5th, Grant= 0, and Meade= 0. (K.O. Bell, Jr.). Survey of first generation on corn July 3-10, asterisk (*) indicates early planted corn (M.L. Shuman et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SW> Finney	0-12	0.9-1.5 m tall	7
SW> Finney	-	-	1
SW> Finney	2-13	0.99-1.1 m tall	2
SW> Kearny	0-16	0.9-1.5 m tall	7
SW> Haskell	0-3	0.9-1.5 m tall	6
SW> Stevens	0-1	1-2 m tall	6
NC> Clay*	4-24	early tassel	3
NC> Cloud*	2	pretassel	1
NC> Republic*	6-35	early tassel	4
NC> Jewell*	50	pretassel	1
NC> Smith*	8-20	1.5-2.1 m tall	2
NC> Phillips*	16	2.4 m tall	1
NC> Osborne*	2	1.5 m tall	1
NE> Wyandotte	trace	early silk	1
C> McPherson	10	-	1

* Mukunya, D.M.; Boothroyd, C.W. *Mycosphaerella zeae-maydis* sp.n., the sexual stage of *Phyllosticta maydis*. *Phytopathol.* 63(4):529-532; 1973.

NEBRASKA - District> County= European corn borer larval infested corn in number of fields (f) week of July 10: SE> Clay, Thayer, and S> Harlan= 3rd and 4th instars, mostly fed in midribs, up to 50% (averaged 25%) in 4f (Peters); Kearney, C> Hall, and Buffalo= up to 62% (averaged 25%) in 79 of 84f (Raun et al.); Howard, E> Merrick, Nance, and Hamilton= 2-61% (averaged 24.1%) in 98f (Monke et al.); Saunders= increased from 30% in 3f June 29 to 34% with 1.34 per stalk, 38% with 1 per stalk, and 42% with 1.66 per stalk (infestation increases apparently due to larvae moving from plant to plant as no additional egg masses found June 29 or July 9), larval instars (based on 77 larvae) mostly 5th instar (Raun); SW> Lincoln= mostly 3rd and 4th instars in 58f and still feeding in whorls (Kozub, Troxel); and Perkins= larvae began entering stalks in 70f (Kozub, Brott).

MINNESOTA - District> County= status: SC> Brown= adult catches dropped, increased from last period at Sleepy Eye, and EC> Hennepin= 3 pupae found at Eden Prairie; most districts> enough heat units accumulated (803.3, base 10°C) as of July 13 for pupation, field surveys showed larvae up to 4th instar with occasional 5th instar; larvae per corn plant and percent infestation: EC> Kanabec= larvae heavy, 2.5 and 52% in 1 field, Isanti= 1.5 and 44% in another field, and Chisago= 3.5 and 40% in 1 field. Survey on corn from 74 fields in 16 counties (D. Sreenivasam):

District	Main instars	Larvae per 100 plants	Infested plants per 100	Average height (cm)
WC	1st, 2nd	12	6.8	183
C	3rd	55	5.2	191
EC	3rd	253	31.6	180
SW	2nd, 3rd	less than 1	3.2	168
SC	3rd, 4th	6	4.0	178

ILLINOIS - European corn borer egg laying appeared to be finished in southern and central areas, as very few egg masses noted. Infestation rates heaviest in northwestern counties. District> County= status on corn week ending June 27: NW> Mercer, Rock Island, Whiteside, and Stephenson= some adults seen, Winnebago= fresh egg masses found, egg laying will probably continue for another week or more. Larvae per 100 plants and percentages of plants showing whorl feeding: Rock Island= 28 and 28%, Whiteside= 108 and 24%, Stephenson= 48 and 24%, Jo Daviess= 12 and 24%, Carroll= 60 and 20%, Mercer= 8 and 20%, W> McDonough and E> Livingston= no data and 20%, and southern one-third area> no data and at or below 16%. (D. Bonham). ESE> Marion= 3rd instar larvae tunneled into leaf midribs (K. Black), and as far north as NW> Stephenson= 2nd instar larvae present. (A.M. Agnello).

INDIANA - District> County= European corn borer status on corn week ending July 11: NE district and NC> Elkhart= heaviest first generation infestations in State, infestations up to 90% but 40-50% more common. Percentages for rest of State much lower. (D.L. Matthew, R.W. Meyer). MARYLAND - Area> status on corn: Eastern Shore> egg masses from second brood adult females detected. Egg laying very light due to hot and dry conditions. (R. Hochmuth, Dively). NEW YORK - District> County= status week of July 10: Long Island area> first brood completed according to decline in adult activity in blacklight traps, Upstate area> adult activity continued at low levels (H. Willson), and W> Genesee= infested about 28% in some fields July 8 (W. Kline).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - KANSAS - Larvae mostly 4th and 5th instars in central, south-central, and southwestern areas July 8-9. (F.L. Poston). District> County= peak adult flights predicted by computer model: SC> Stafford= about July 18; Pawnee, Pratt, Kiowa, and Edwards= July 19; and SW> Gray, Stevens, and Morton= July 21. (F.L. Poston, S.M. Welch). Survey on corn July 3-10, asterisk (*) indicates early planted corn (M.L. Shuman et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SW> Finney	0	0.9-1.5 m tall	7
SW> Finney	trace	-	1
SW> Finney	0	0.99-1.1 m tall	2
SW> Kearny	0	0.9-1.5 m tall	7
SW> Haskell	0-1	0.9-2 m tall	6
SW> Stevens	0-21	1-2 m tall	6
NC> Clay*	0	early tassel	3
NC> Cloud*	0	pretassel	1
NC> Republic*	0	early tassel	4
NC> Jewell*	0	pretassel	1
NC> Smith*	0	1.5-2.1 m tall	2
NC> Phillips*	0	2.4 m tall	1
NC> Osborne*	0	1.5 m tall	1
NE> Wyandotte	0	early silk	1
C> McPherson	0		1

ARMYWORM (*Pseudaletia unipuncta*) - MINNESOTA - District> County= larvae on corn: SE> Goodhue= 2 per plant in 1 field and treated, and SC> Freeborn= heavy in 1 field. (D. Sreenivasam). INDIANA - District> County= larvae on no-till grain corn week ending July 11: NE> Steuben= destroyed 2.8 of 3.2 ha, reducing plants to short stumps and few midribs. (D.L. Matthew). MARYLAND - District> County= status on no-till corn: W> Allegany= larvae up to 4 per plant in areas of field, 3 ha with 90% infestation. (R. Hochmuth, Curtis). NEW YORK - District> County= larvae per no-till corn plant July 9: SW> Chautauqua= severe in several fields, up to 3-5 in southern area. (Hudson).

STALK BORER (*Papaipema nebris*) - ILLINOIS - District> County= status week ending June 27: NW> Carroll= 8.0 ha of no-till corn following no-till corn lost. (E. Kuebrich).

YELLOWSTRIPED ARMYWORM (*Spodoptera ornithogalli*) - INDIANA - First of season. District> County= adult status June 9: WC> Tippecanoe= taken in blacklight trap. (M. Ross).

CORN ROOTWORMS (*Diabrotica* spp.) - KANSAS - Root damage in experimental corn plots in northeastern area much greater than in 1979. (G.E. Wilde). District> County= adult status on corn week ending July 11: SW> Haskell= trace (M.L. Shuman), NE> Wyandotte= up to 14 per plant in early silk stage (K.O. Bell, Jr.), and Leavenworth= usually less than 1 per plant in several fields (L.C. Bonczkowski). NEBRASKA - District> County= status on corn week of July 10: NE> Wayne= 3rd instar larvae up to 9 (averaged 7) per plant, severely damaged plants, in field planted mid-May and treated at planting time (Jarvi) and SW> Lincoln= WESTERN CORN ROOTWORM (*Diabrotica virgifera*) males emerged in bottom land fields, none noted in upland sandy soil fields (Kozuh, Troxel).

MISSOURI - District> County= Diabrotica virgifera adults on corn: NW> Atchison= averaged 8 per plant in 3 fields in continuous corn, very light in fields planted in soybeans in 1979. (R.E. Munson). ILLINOIS - District> County= larvae of probably both NORTHERN CORN ROOTWORM (Diabrotica longicornis) and Diabrotica virgifera week ending June 27: E> Piatt (R. Sechriest) and NW> Lee= found in roots (D. Kuhlman) and E> Vermilion= averaged 20+ per plant. (A.M. Agnello). INDIANA - First adults of season. District> County= Diabrotica virgifera status on corn July 2: WC> Tippecanoe= dug from soil, no longer teneral. (M. Bergman).

GREENBUG (Schizaphis graminum) - KANSAS - Remained scarce on sorghum statewide. District> County= status on sorghum [61-76 cm tall] week ending July 11: NE> Leavenworth= light. (L.C. Bonczkowski). NEBRASKA - District> County= counts (average) per sorghum plant week of July 10: SE> Clay= up to 100 (75) in research plots at south-central station; no visible damage, populations increased. (Peters).

CORN LEAF APHID (Rhopalosiphum maidis) - ILLINOIS - Colonies established in southern areas on sorghum. District> County= counts per 100 corn plants week ending June 27: SE> Saline= 1 (C. Bremer) and C> Mason= 4 (A.M. Agnello).

CHINCH BUG (Blissus leucopterus leucopterus) - KANSAS - District> County= status week ending July 11: NC> as far west as Jewell at Jewell and Lovewell, and Mitchell at Beloit= damaged some sorghum field margins adjacent to wheat. (K.O. Bell, Jr., L.C. Bonczkowski). NEBRASKA - District> County= counts per plant [host stage] week of July 10: S> Adams= up to 200 on corn [1-2 m tall] in field bordering wheat and SE> Thayer= averaged 150 on untreated sorghum [7-leaf] in research plots bordering wheat, population and rate of damage decreased and migration about over. (Peters).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - SOUTH CAROLINA - District> County= status on sweet corn week of July 2: C> Lexington= eggs and adults heavy on 12 ha. (B. Jones). NORTH CAROLINA - District> County= status on corn: Northern Coastal> Chowan= infested scattered fields to southern border, NE counties surrounding Chowan= infestation levels light to heavy, Central Coastal> Lenoir and Southern Coastal> Sampson= surveys revealed 2 isolated fields approaching treatment level. (T. Hunt).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) light and scattered throughout north-central grain areas of United States, June 25 to July 8. First found June 16 in NORTH DAKOTA on winter wheat at Casselton experiment station. (Miller, Statler). Epidemic levels started to develop in Pacific Northwest; damage could be significant in some commercial grain fields. (Line). ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 16: C> De Witt= 50%/trace [late milk], Logan= 100%/3% [late milk], Mason= 100%/2% [early dough], W> Fulton= 100%/2% [late milk], NE> De Kalb= trace/trace [three-fourths kernel], Kane= 50%/trace [three-fourths kernel], and Kendall= 70%/trace [milk]. (E.G. Jordan).

OHIO - District> County= wheat leaf rust prevalence/severity on wheat [milk] leaves in 1 commercial field each, week ending June 13: NW> Wood= 100%/1%, Williams= 100%/1-5%, Paulding= 100%/trace to 1%, SW> Preble= 100%/5-10%; on wheat [early dough] week ending June 27: C> Pickaway= 100%/25%, Ross= 100%/

25%, SC> Brown= wheat leaf rust 100%/5-10%, SW> Clinton= 100%/trace to 5%, and WC> Clark= 100%/25%; and on wheat [late dough] week ending July 3: C> Licking= 100%/5-20%, Marion= 100%/1%, Morrow= 100%/5-10%, NC> Crawford= 100%/trace to 1%, NW> Hancock= 100%/25%, WC> Champaign= 100%/20-25%, Hardin= 100%/10-25%, and Logan= 100%/5%. (R.F. Hite).

BARLEY LEAF RUST (*Puccinia hordei*) not reported from spring barley area in Great Plains. Severity moderate in winter barley areas of PENNSYLVANIA, VIRGINIA, WEST VIRGINIA, and DELAWARE, June 25 to July 8. Widespread occurrence here and sparsity elsewhere suggest that leaf rust overwintered on winter barley in this general area. (R.P. Roelfs, D. Long).

RYE LEAF RUST (*Puccinia recondita* f.sp. *secalis*) in commercial rye fields of Summers, Monroe, and Greenbrier Counties, WEST VIRGINIA (Bostic), and small grain disease detection plots in Montgomery, Washington, and Rockbridge Counties, VIRGINIA (Clement). Defoliated winter trap plots in east-central MINNESOTA and trace on spring ryes. (R.P. Roelfs, D. Long).

STRIPE RUST (*Puccinia striiformis*) widespread on wheat in Pacific Northwest, June 25 to July 8. Could become severe on susceptible cultivars with continued cool wet weather. Losses could be heavy in late-planted fields of cultivars with temperature-sensitive resistance like 'Fielder.' (Line). ILLINOIS - New State and county records. District> County= prevalence/severity on *Triticum aestivum* (wheat) in 1 commercial field each: NW> Ogle= 90%/15% near Creston, June 13, 1979, Whiteside= 80%/10% near Sterling, June 19, and NE> Kendall= 40%/6% near Yorkville. All collected and determined by E.G. Jordan. (E.G. Jordan).

OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) trace on oats in trap nursery at Rosemount, MINNESOTA, July 3. Lack of inoculum main reason for scarcity of disease in east-central Minnesota where inoculated plots and *Frangula alnus* (buckthorn) nursery severely rusted. (R.P. Roelfs, D. Long). ILLINOIS - District> County= prevalence/severity on oat [host stage] leaves in 1 commercial field each, week of June 30: C> De Witt= 10%/trace [milk], Logan= trace/trace [milk], W> McDonough= trace/trace [milk], Knox= trace/trace [milk], NW> Henry= 20%/trace [milk], Lee= 10%/trace [milk], Whiteside= trace/trace [late milk], Carroll= 30%/1% [late milk], Jo Daviess= 50%/8% [milk], Stephenson= 100%/5% [milk], Winnebago= 100%/8% [milk], Ogle= 100%/10% [milk], NE> Boone= 100%/12% [milk], and McHenry= 100%/9% [milk]. (E.G. Jordan).

For STEM RUSTS on small grains see page 491-492.

SPECKLED LEAF BLOTCH (*Septoria tritici*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 16: C> De Witt= 100%/12% [late milk], Logan= 100%/15% [late milk], NE> De Kalb= 100%/3% [three-fourths kernel], Kane= 100%/2% [three-fourths kernel], and Kendall= 100%/5% [milk]. (E.G. Jordan).

OHIO - District> County= prevalence/severity of speckled leaf blotch on wheat [milk], lower leaves only in 1 commercial field each, week ending June 13: NW> Henry= 100%/1-2%, Paulding= 100%/15-20%, Van Wert= 100%/5-10%, Wood= 100%/50%, and SE> Perry= 100%/5-10%. Prevalence/severity of speckled leaf blotch and imperfect stage of SEPTORIA GLUME BLOTCH (*Leptosphaeria* (*Septoria*) *nodorum*) on wheat [early dough] leaves in 1 commercial field each, week ending June 27: C> Pickaway, Ross, SC> Brown, SW> Clinton, and WC> Clark= 100%/10-50% in all fields; on wheat [late dough] week ending July 3: C> Licking, Marion, NC> Crawford, NW> Hancock, WC> Champaign, Hardin, and Logan= 100%/15-50% in all

fields. Prevalence of imperfect stage of septoria glume blotch on wheat [late dough] heads in 1 commercial field each, week of July 3: C> Morrow= 1%, NC> Crawford= 10%, and WC> Logan= 1-5%; trace on leaves in most fields inspected. (R.E. Hite).

SPECKLED BLOTCH (*Leptosphaeria* (*Septoria*) *avenaria*) - ILLINOIS - District> County= prevalence/severity of imperfect stage on oat [host stage] leaves in 1 commercial field each, week of June 30: C> De Witt= 50%/trace [milk], Logan= 90%/2% [milk], NW> Henry= 80%/4% [milk], Lee= 70%/1% [milk], Whiteside= 95%/8% [late milk], Carroll= 90%/5% [late milk], Jo Daviess= 85%/8% [milk], Stephenson= 75%/4% [milk], Winnebago= 90%/7% [milk], Ogle= 70%/5% [milk], NE> Boone= 80%/7% [milk], and McHenry= 95%/5% [milk]. (E.G. Jordan).

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 16: C> De Witt= trace/trace [late milk], Logan= trace/trace [late milk], Mason= trace/trace [early dough], W> Fulton= trace/trace [late milk], NE> De Kalb= trace/trace [three-fourths kernel], Kane= trace/trace [three-fourths kernel], and Kendall= 100%/1% [milk]. (E.G. Jordan).

OHIO - District> County= wheat powdery mildew prevalence/severity on wheat [milk] leaves in 1 commercial field each, week ending June 13: NW> Henry= 100%/2-3%, Paulding= 100%/5%, Van Wert= 100%/5%, Wood= 100%/5%, and WC> Mercer= 100%/5%; on wheat [early dough] week ending June 27: C> Pickaway= 100%/1-5%. (R.E. Hite).

TAKE-ALL (*Gaeumannomyces graminis* f.sp. *tritici*) - OHIO - District> County= prevalence in 1 commercial field week ending July 3: WC> Champaign= 1-2% and C> Licking= 10-15%. (R.E. Hite).

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - ILLINOIS - District> County= prevalence on wheat [host stage] in number of commercial fields (f) week of June 16: C> De Witt, Logan, and Mason= trace [late milk to early dough] in 3f; W> Fulton= trace [late milk] in 1f; and NE> De Kalb, Kane, and Kendall= trace [three-fourths kernel to milk] in 3f. (E.G. Jordan). OHIO - District> County= prevalence on wheat [milk] in 1 commercial field each, week ending June 13: NW> Wood= trace to 1%, SW> Preble= 5-10%, and SE> Perry= 1-5%. (R.E. Hite).

TAN SPOT (*Pyrenophora trichostoma*) - OHIO - District> County= prevalence/severity on wheat [milk] leaves in number of commercial fields (f) week ending June 13: NW> Williams= 100%/20-30% in 4f and Paulding= 100%/1-5% in 1f. (R.E. Hite).

HELMINTHOSPORIUM LEAF BLOTCH (*Pyrenophora* (*Drechslera*) *chaetomoides*) - ILLINOIS - District> County= prevalence/severity of imperfect stage on oat [host stage] leaves in 1 commercial field each, week of June 30: C> De Witt= 80%/5% [milk], Logan= 85%/7% [milk], W> McDonough= 50%/trace [milk], Knox= 90%/8% [milk], NW> Henry= 60%/1% [milk], Lee= 70%/3% [milk], Whiteside= 85%/3% [late milk], Carroll= 75%/2% [late milk], Jo Daviess= 50%/1% [milk], Stephenson= 80%/3% [milk], Winnebago= 85%/5% [milk], Ogle= 55%/2% [milk], NE> Boone= 70%/3% [milk], and McHenry= 40%/1% [milk]. (E.G. Jordan).

OAT BLACK LOOSE SMUT (*Ustilago avenae*) - ILLINOIS - District> County= prevalence on oat [milk unless stated otherwise] heads in 1 commercial field each, week of June 30: C> De Witt= 8%, Logan= trace, W> McDonough= 15%, Knox= 10%, NW> Henry= 5%, Lee= 12%, Whiteside= trace [late milk], Winnebago= trace, NE> Boone= trace, and McHenry= trace. (E.G. Jordan).

LOOSE SMUT (*Ustilago nuda*) - ILLINOIS - District> County= prevalence on wheat [host stage] heads in 1 commercial field each, week of June 16: C> De Witt= 1% [late milk], W> Fulton= 1% [late milk], and NE> De Kalb= 1% [three-fourths kernel]. (E.G. Jordan).

ERGOT (*Claviceps purpurea*) - ILLINOIS - District> County= prevalence on rye heads week of June 30: NW> Jo Daviess= 5% in 1 commercial field, 1-5 hornlike sclerotia on infected heads. (E.G. Jordan).

SCAB (*Fusarium* spp.) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] heads in 1 commercial field each, week of June 16: C> De Witt= trace/trace [late milk], Logan= 1%/trace [late milk], Mason= trace/trace [early milk], W> Fulton= 8%/5-15% [late milk], NE> De Kalb= trace/trace [three-fourths kernel], Kane= trace/trace [three-fourths kernel], and Kendall= trace/trace [milk]. (E.G. Jordan).

CEREAL SCAB (*Gibberella roseum* f.sp. *cerealis*) - OHIO - District> County= prevalence of imperfect stage on wheat [milk] heads in 1 commercial field each, week ending June 13: SE> Perry= 1-5%; prevalence on wheat [early dough] heads week ending June 27: C> Pickaway= 50%, Ross= 15-20%, SW> Clinton= 10%, and WC> Clark= 5-10%; prevalence on wheat [late dough] heads week ending July 3: C> Licking= 90%, Marion= 10-15%, Morrow= 80%, NC> Crawford= 35%, NW> Hancock= 10-15%, WC> Champaign= 20-25%, and Hardin= 10-15%. (R.W. Hite).

HALO BLIGHT (*Pseudomonas coronafaciens*) - ILLINOIS - District> County= prevalence/severity on oat [milk unless stated otherwise] leaves in 1 commercial field each, week of June 30: C> De Witt= 95%/10%, Logan= 100%/12%, W> McDonough= 80%/5%, Knox= 70%/1%, NW> Henry= 85%/4%, Lee= 75%/3%, Whiteside= trace/trace [late milk], Carroll= 50%/trace [late milk], Jo Daviess= trace/trace, Stephenson= trace/trace, Winnebago= trace/trace, Ogle= trace/trace, NE> Boone= trace/trace, and McHenry= trace/trace. (E.G. Jordan).

BARLEY YELLOW DWARF VIRUS - ILLINOIS - District> County= prevalence on wheat [host stage] in number of commercial fields (f) week of June 16: C> De Witt, Logan, and Mason= trace [late milk] in 3f; W> Fulton= trace [late milk] in 1f; and NE> De Kalb, Kane, and Kendall= trace to 5% [three-fourths kernel to milk] in 3f; on oats in 1 commercial field each, week of June 30: C> De Witt, Logan, W> McDonough, Knox, NW> Henry, Lee, Whiteside, Carroll, Jo Daviess, Stephenson, Winnebago, Ogle, NE> Boone, and McHenry= trace to 1%. (E.G. Jordan). OHIO - Area> prevalence on wheat week of July 3: Statewide> trace in fields. Selected samples assayed and confirmed by W.F. Rochow as PAV strain. (R.E. Hite).

TURF, PASTURES, RANGELAND

INSECTS

CHINCH BUG (*Blissus leucopterus leucopterus*) - NEBRASKA - District> County= average per sudangrass [1 m tall] plant: S> Adams= 100 in field adjacent to wheat. (Peters).

FORAGE LEGUMES

INSECTS

ALFALFA BLOTCH LEAFMINER (*Agromyza frontella*) - MARYLAND - Damage heavy in several central areas. District> County= status on forage legumes week ending

July 11: NC> Carroll and Baltimore= alfalfa blotch leafminer mined 100% of tips in few fields, and Frederick= seemed less severe with most fields still well below economic levels; currently: C and W areas> damage severe and W> Allegany and NC> Carroll= mined 80-90% of tips in fields, minor populations throughout much of rest of State. (R. Hochmuth).

POTATO LEAFHOPPER (*Empoasca fabae*) - MISSOURI - District> County= counts per 50 sweeps of alfalfa in 1 field each: C> Howard= 90 and 358, Cooper= 273, and Callaway= 36, adults left field after cutting. (S. Quisenberry). ILLINOIS - Sweep counts unusually heavy in central region fields, although no yellowing noted. District> County= counts per sweep of alfalfa week ending June 27: W> Fulton, C> Mason, and Logan= 5; W> McDonough= 4; WSW> Cass= 3; and Morgan= 1. (D. Bonham).

MARYLAND - Potato leafhopper very heavy in central area. District> County= counts per sweep of forage legumes week ending July 11: NC> Frederick= averaged 4, severe yellowing in several fields; current status on forage legumes: Parts of C area> very heavy levels found, NC> Carroll= up to 6 per sweep, and W area and Eastern Shore Counties> population less, averaged about 1 per sweep; spotty heavier populations also present. (R. Hochmuth).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: SW> Yuma= nymphs and adults 32, C> Pinal= nymphs and adults 572, and Maricopa= adults 70. (L. Lee et al.).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* var. *sojae*) - ILLINOIS - District> County= prevalence on soybean [host stage] roots on cultivar in 1 monitoring plot each, week of June 23: E> Champaign= trace [4 nodes] on 'Kent' and ESE> Fayette= trace [6 nodes] on 'Elf;' June 30 to July 11: SW> St. Clair= trace [flowering] on 'Corsoy,' ESE> Fayette= trace [pods 0.5 cm] on 'Amsoy 71,' NE> De Kalb= trace [7 nodes] on 'Williams,' NW> Putnam= trace [flowering] on 'Beeson,' W> McDonough= trace [flowering] on 'Amsoy,' and C> Logan= trace [6 nodes] on 'Elf.' (E.G. Jordan).

PHYLLOSTICTA LEAF SPOT (*Phylllosticta sojaecola*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar if given, in 1 monitoring plot each, week of June 16: C> Logan= trace/trace [3 nodes], NE> De Kalb= trace/trace [3 nodes], NW> Putnam= trace/trace [4 nodes], and W> McDonough= trace/trace [6 nodes]; week of June 23: E> Champaign= 100%/1% [4 nodes] on 'Woodworth,' SE> Pope= trace/trace [5 nodes] on 'Franklin,' SW> Jackson= trace/trace [5 nodes] on 'Clark 63,' St. Clair= trace/trace [4 nodes] on 'Cutler 71,' and ESE> Fayette= trace/trace [6 nodes] on 'Union.' (E.G. Jordan).

SOYBEAN BROWN SPOT (*Septoria glycines*) - IOWA - Detected on soybeans under continuous cropping. District> County= prevalence/severity on soybeans [9 nodes to first flower] week of July 8: EC> Linn, Jones, Muscatine, SE> Des Moines, NW> O'Brien, and WC> Ida= 75-100%/5-35% on leaves below 3rd node. Lesions on plants under rotation with corn limited to unifoliate leaves 0-50%/trace to 35%. (D.J. Williams).

ILLINOIS - District> County= soybean brown spot prevalence/severity on soybean [host stage] leaves on cultivar if given, in 1 monitoring plot each, week of June 16: NE> De Kalb= trace/trace [3 nodes], NW> Putnam= trace/trace [4 nodes],

and W> McDonough= 100%/4% [6 nodes]; week of June 23: E> Champaign= trace/trace [4 nodes] on 'Beeson,' SE> Pope= trace/trace [4 nodes] on 'Amsoy,' SW> Jackson= trace/trace [flowering] on 'Wells,' St. Clair= trace/trace [4 nodes] on 'Clark,' and ESE> Fayette= 100%/3% [flowering] on 'Corsoy;' June 30 to July 11: E> Champaign= 100%/1% [flowering] on 'Amsoy,' SE> Pope= 100%/3% [flowering] on 'Amsoy 71,' SW> Jackson= 100%/1% [pods 0.5 cm long] on 'Beeson,' St. Clair= 100%/2% [flowering] on 'Corsoy,' ESE> Fayette= 100%/5% [pods 0.5 cm long] on 'Wells,' NE> De Kalb= 100%/1% [6 nodes] on 'Elf,' NW> Putnam= 100%/trace [flowering] on 'Williams,' W> McDonough= 100%/1% [8 nodes] on 'Woodworth,' and C> Logan= 100%/trace [6 nodes] on 'Clark.' (E.G. Jordan).

OHIO - District> County= soybean brown spot prevalence/severity on lower leaves of soybeans [host stage] in 1 commercial field each, week ending June 27: C> Ross= 1%/trace [4 nodes], SC> Scioto= trace/trace [6 nodes], Brown= trace/trace [5 nodes], and WC> Hardin= trace/trace [3 nodes]. (R.E. Hite).

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar in 1 monitoring plot each, June 30 to July 11: E> Champaign= trace/trace [flowering] on 'Amsoy 71,' SE> Pope= trace/trace [flowering] on 'Clark 63,' SW> Jackson= trace/trace [flowering] on 'Franklin,' St. Clair= trace/trace [flowering] on 'Williams,' and ESE> Fayette= trace/trace [flowering] on 'Clark 63.' (E.G. Jordan).

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar if given, in 1 monitoring plot each, week of June 16: NE> De Kalb= trace/trace [3 nodes], NW> Putnam= trace/trace [4 nodes], and W> McDonough= trace/trace [6 nodes]; week of June 23: E> Champaign= trace/trace [4 nodes] on 'Union,' and ESE> Fayette= 100%/1% [6 nodes] on 'Williams;' and June 30 to July 11: E> Champaign= 50%/1% [8 nodes] on 'Clark 63,' SE> Pope= 100%/5% [flowering] on 'Kent,' SW> Jackson= 100%/3% [flowering] on 'Union,' St. Clair= trace/trace [flowering] on 'Franklin,' ESE> Fayette= 100%/10% [10 nodes] on 'Essex,' NE> De Kalb= 100%/5% [6 nodes] on 'Cutler 71,' NW> Putnam= 50%/2% [7 nodes] on 'Elf,' W> McDonough= 100%/9% [flowering] on 'Amsoy,' and C> Logan= trace/trace [6 nodes] on 'Amsoy 71.' (E.G. Jordan).

OHIO - District> County= soybean bacterial blight prevalence/severity on soybean [7-8 nodes to 1 flower any node] leaves week ending June 27: WC> Clark= trace to 75%/trace to 5% on 24 varieties in monitoring plots. (R.E. Hite).

SOYBEAN MOSAIC VIRUS - ILLINOIS - District> County= prevalence on soybean [host stage] plant on cultivar in 1 monitoring plot each, week of June 23: SE> Pope= trace [4 nodes] on 'Williams,' SW> Jackson= trace [5 nodes] on 'Union,' and ESE> Fayette= trace [6 nodes] on 'Cutler 71.' (E.G. Jordan).

SOYBEAN CYST NEMATODE (*Heterodera glycines*) - IOWA - New county record. District> County= collection data from *Glycine max* (soybean): NC> Hancock= at Woden, June 1980 (date unknown), collected and determined by J. Harri and C.R. Stoltenow, confirmed by D.J. Williams. (D.J. Williams).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - MARYLAND - Mostly below economic levels on Eastern Shore. District> County= status on soybeans: Eastern Shore counties> larvae in central area averaged 5-10 per 0.9 row m somewhat more than in upper and lower areas, defoliation averaged 5-10% in central area and below

5% in lower area, Caroline= Mexican bean beetle defoliation 25%, heaviest damage in State, and S> Prince Georges= still damaging. (R. Hochmuth).

GREEN STINK BUG (*Acrosternum hilare*) - SOUTH CAROLINA - Heavy, early season populations may indicate heavy pressure this year. District> County= counts per 0.3 row m of soybeans July 1-10: WC> Aiken and S> Barnwell= 1-2 in fields; no damage before pod set. (J. Chapin).

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - MARYLAND - District> County= status on soybeans: Eastern Shore area> populations began to appear, due to dry conditions. Eastern Shore> Dorchester= 1 field reached treatment levels. (R. Hochmuth, Dively).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - MAINE - County= eggs, larvae, and adults week of July 10: Aroostook= found in 2 plots in southern area and in 5 plots in central area. (A. Gall).

POTATO APHID (*Macrosiphum euphorbiae*) - MAINE - County= status July 9: Aroostook= 3 alates trapped at Van Buren. (A. Gall).

GREEN PEACH APHID (*Myzus persicae*) - MAINE - County= status July 9: Aroostook= 1 alate trapped at Mapleton very unusual, earliest normal date in August. (A. Gall).

FOXGLOVE APHID (*Acyrtosiphon solani*) - MAINE - Area> status July 9: N> 1-2 alates in each of 6 traps bordering St. John River. (A. Gall).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - IDAHO - District> County= adults trapped June 20-27: SW> Canyon= 7 and 13 in central Cove area (C.R. Baird); on apple June 22-26: SC> Twin Falls= 17 on tree at Twin Falls (R.L. Stoltz); July 2-8: N> Latah= 11 males in pheromone trap in yard at Moscow (D.R. Scott). MAINE - Pheromone trap catches averaged 6 per trap per week June 16-23, up from 1 per trap per week June 2-9. (A. Gall).

LESSER PEACHTREE BORER (*Synanthedon pictipes*) - SOUTH CAROLINA - District> County= pheromone trap catches of this species and PEACHTREE BORER (*Synanthedon exitiosa*) (average) per trap in peach orchards week ending July 3: WC> Edgefield, Saluda, and C> Lexington= 0-172 (23) and 2 (no data), respectively. (B. Hallman, C.S. Gorsuch).

PEACHTREE BORER (*Synanthedon exitiosa*) - IDAHO - District> County= adults trapped June 20-27: SW> Canyon= 13 and 1 in 2 traps at central Cove. (C.R. Baird).

APPLE MAGGOT (*Rhagoletis pomonella*) - MAINE - Adults began emerging from soil in 'seeded' cages (bare soil) at Highmoor June 24-27, one of earliest emergence in several years, about 2 days later than in 1979 and much earlier than usual. (A. Gall). MINNESOTA - Emergence not increased much except in Ramsey County, where emergence doubled compared with last period. Environmental factors very

similar in various trap locations. District> County= apple maggot trap counts: EC> Ramsey= 34 at North St. Paul, EC> Hennepin= 6 in western area, and SC> Faribault= 2 in western area. (D. Sreenivasam).

APPLE APHID (*Aphis pomi*) - IDAHO - District> County= aphids per leaf on Red Delicious and Rome apples June 30: SW> Payette= 100+ on 60-70% of terminal branches in several orchards at Fruitland. (C.R. Baird).

WHITE APPLE LEAFHOPPER (*Typhlocyba pomaria*) - NEW YORK - District> County= status July 6: SE> Orange= first hatch of second brood noted. (R. Weires).

BLACKMARGINED APHID (*Monellia caryella*) - ARIZONA - District> County= nymphs and adults per 100 pecan terminals: C> Pinal= 189. (T. Brooks).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - MINNESOTA - New State record. District> County= collection data from Pinus nigra (Austrian pine): C> Sherburne= on Christmas tree plantation at Zimmerman, May 1, 1980, by T. Nicholls and M. Palmer, determined by A. Foudin. (A. Foudin, E.L. Stromberg). WEST VIRGINIA - New State record. District> County= collection data from Pinus sylvestris (Scotch pine): SW> Kanawha= from 6 dead trees in forest area near Charleston, June 5, 1980, by S.C. Haynes, J.D. Hacker, and R.L. Williams, determined by W. Friedman. (S.C. Haynes).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A CONOPID FLY (*Zodion obliquefasciatum*) - WASHINGTON - District> County= status of this Nomia melanderi (alkali bee) parasite by July 2: SE> Walla Walla= emergence heavy, up to 20 per trap stake in Touchet and Lowden areas. (C. Johansen).

ALKALI BEE (*Nomia melanderi*) - WASHINGTON - District> County= status July 2: SE> Walla Walla= most beds nearing peak of nest construction, up to 140 per 0.09 sq m. Re-nesting started in late beds about June 23 in Touchet and Lowden areas. (C. Johansen).

FEDERAL AND STATE PROGRAMS

DISEASES

Aecial collections of STEM RUST (*Puccinia graminis*) from BARBERRY (*Berberis* spp.) submitted from Ontario and Quebec, Canada, June 25 to July 8. Early aecial collections from Ontario identified as RYE STEM RUST (*Puccinia graminis* f.sp. secalis). (R.P. Roelfs, D. Long).

OAT STEM RUST (*Puccinia graminis* f.sp. avenae) in oat nurseries June 25 to July 8 at Urbana, ILLINOIS (Jedlinski); Castana (Browning) and Ames, IOWA (Simons); and in commercial field in Tippecanoe County, INDIANA (Shaner). Following races identified from collections received before July 7 (R.P. Roelfs, D. Long):

Area	Number of collections	Number of isolates of each race			
		NA-5	NA-16	NA-23	NA-27
TX, S	44	67	2	11	42
TX, C	81	15	18		208
TX, N	3	3			6
GA	1				3
Mexico, NE	9				13
Mexico, C	8	1	5	1	10
Mexico, NW	10		14		15

ILLINOIS - District> County= oat stem rust prevalence/severity on oat [host stage] stems in 1 commercial field each, week of June 30: C> De Witt= 50%/trace [milk], Logan= 20%/trace [milk], W> McDonough= 70%/5% [milk], Knox= trace/trace [milk], NW> Henry= 5%/trace [milk], Lee= 10%/trace [milk], Whiteside= trace/trace [late milk], and Winnebago= trace/trace [milk]. (E.G. Jordan).

No further reports of WHEAT STEM RUST (*Puccinia graminis* f.sp. *tritici*) on wheat in United States, June 25 to July 8. Northernmost known natural infection in southern NEBRASKA susceptible wheat plot. Normally found by July 8 as far north as southern NORTH DAKOTA. Lack of inoculum prevented rust development in wetter areas of northern Great Plains; no losses foreseen. Severe epidemics induced with artificial inoculations at St. Paul and Fargo indicate weather not unfavorable at those locations. No race identifications completed for U.S. due to absence of rust in southern States during April and May. (R.P. Roelfs, D. Long).

For other rusts on small grains, see p. 484-485.

INSECTS

CEREAL LEAF BEETLE (*Oulema melanopus*) - WISCONSIN - New county records collected from oats in 1980. Larvae very light, about 1 per 400 sweeps, heavier at site in SE district> Washington County. (O.L. Lovett).

<u>District> County</u>	<u>Nearest city</u>	<u>Date</u>	<u>Collector and determiner</u>
SC> Dane	Cross Plains	Jun 4	M. Conrad
SC> Green	Albany	Jun 9	J. Nara
SC> Columbia	Arlington	Jun 10	M. Conrad
SW> Iowa	Arena	Jun 11	O.L. Lovett

GRASSHOPPERS - NEBRASKA - District> County= status week of July 10: N> Brown, Blaine, C> Custer, SW> Lincoln, and Keith= nymphs and adults, mostly *Melanoplus differentialis* and *Melanoplus bivitattus*, averaged 50 per 0.8 sq m in alfalfa, borrow pits, and roadside ditches, grass apparently too dry to be attractive but forbs fed on extensively; and S> Harlan= *Melanoplus* spp. averaged 25 per 0.8 sq m on highways in some areas. (Peters). NORTH DAKOTA - District> County= status on rangeland: SC> Grant= 17,928 ha treated, additional 28,328-ha control block scheduled to be treated in southern area starting July 30. (W.J. Brandvik). MINNESOTA - District> County= grasshopper status: WC> Wilkin and Traverse= economic in some drier areas in small grain and alfalfa fields, 8+ per 0.8 sq m with visible feeding damage in wheat field in former county and 10-14 per 0.8 sq m in alfalfa field in latter county. (D. Sreenivasam).

GYPSY MOTH (Lymantria dispar) - TENNESSEE - District> County= male in pheromone trap: Central Basin> Smith= recovered at rest stop on National Interstate Highway 40 at eastern edge of county. (M.E. Cooper). NEW HAMPSHIRE - Area> status June 30 to July 6: S> fully grown larvae began to pupate in wooded areas, wandering larvae common in suburban areas throughout much of area. (W.J. Morse, J.F. Burger).

JAPANESE BEETLE (Popillia japonica) - INDIANA - Adults in several NW district fields, particularly Newton County which is usually first county with soybean infestations of any consequence. District> County= adults week ending July 11: NW> as far north as La Porte and as far south as White= 2 per row m or fewer. (R.W. Meyer). NORTH CAROLINA - Area> status on soybeans: Statewide> defoliation levels still about 5% with few fields heavier, none near 35% foliage loss threshold level. (T. Hunt). MARYLAND - Area> status on corn: Statewide> seems heavier than normal; status on soybeans: Statewide> adults heavy, and Eastern Shore> adults averaged 5-10 per 0.9 row m, defoliation 5-10% on full season beans. (R. Hochmuth). NEW HAMPSHIRE - First adults of season. County= status on grapes July 5: Strafford= observed feeding at Durham, expected to become heavy next 2-3 weeks. (W.J. Morse).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton: SW> Yuma= infested bolls 25% on untreated cotton at Yuma experiment station; pheromone trap catches per trap per day: C> Maricopa= 1-13, Pinal= 8-31, and SW> Yuma= 10. (R. Gibbs et al.).

DETECTION

NEW STATE RECORDS

DISEASES

PINWOOD NEMATODE (Bursaphelenchus lignicolus) - MINNESOTA - Sherburne County and WEST VIRGINIA - Kanawha County. (p. 491).

STRIPE RUST (Puccinia striiformis) - ILLINOIS - Ogle County. (p. 485).

NEW COUNTY RECORDS

DISEASES

SOYBEAN CYST NEMATODE (Heterodera glycines) - IOWA - Hancock. (p. 489).

STRIPE RUST (Puccinia striiformis) - ILLINOIS - Whiteside and Kendall. (p. 485).

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - See page 492.

CORRECTIONS

CPPR 5(25):463 - MAIZE DWARF MOSAIC VIRUS - MISSOURI - Strain A present. Delete MAIZE CHLOROTIC DWARF VIRUS. (A. Foudin).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Co	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
					127	6	3	5							2				
Mesa 7/7-13																			
CALIFORNIA																			
14-32		B		233	1	2				20	0							1	
17-34		R		299	1	8						2						4	
Manteca 7/14																			
FLORIDA																			
		B		3	5	1	3			8	30								
Gainesville 7/10-16																			
INDIANA (Counties)																			
		B																	
		5P			14	0		6		29	0	0	0					11	
LaGrange 7/14																			
Tippecanoe 7/16																			
KANSAS																			
		B		5			281			145									13
		B		1			10			11	2								12
Rossville 7/17, 18																			
MINNESOTA																			
		B		14	2					36		15						27	
14-38 25.4 mm		B		16	14			1											
13-37 11.0 mm		B																	
Le Sueur 7/10-15																			
MISSISSIPPI																			
23-39		2B		65	30	193	388			132					3		8	1	47
Stoneville 7/11-17																			
NORTH DAKOTA																			
		B		4	24														
Bismarck 7/3, 8, 15																			
		B		6	48													3	
Bottineau 7/4, 8, 11, 16																			
OHIO (Counties)																			
		B		1		0	0	0		0								0	
Putnam 7/7-13		2B		400	229			0		0					0	1	0	2	
Wayne 7/10-16															0	0			
PENNSYLVANIA																			
		B		1	3														
Erie 7/2-8		B		2		10													
Howard 7/9																			

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	CLO	CoM	ECR	FAW	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAW
TEXAS																			
College Station 7/2-13		B		19		0	275	1			3			0	5	0	0		0

ABBREVIATIONS:

B Blacklight
M Mercury vapor
U Ultraviolet
P Pheromone

ACw Army Cutworm
Aw Armyworm
BAw Beet Armyworm
BCw Black Cutworm
CEw Corn Earworm
CLO Cabbage Looper
CoM Codling Moth
ECR European Corn Borer
FAW Fall Armyworm
GCw Granulate Cutworm
RLr Redbanded Leafroller
SmC Saltmarsh Caterpillar
TbH Tobacco Hornworm
TmH Tomato Hornworm
ToB Tobacco Budworm
VCw Variegated Cutworm
YAW Yellowstriped Armyworm

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Cooperative Plant Pest Report

August 1, 1980

Vol. 5

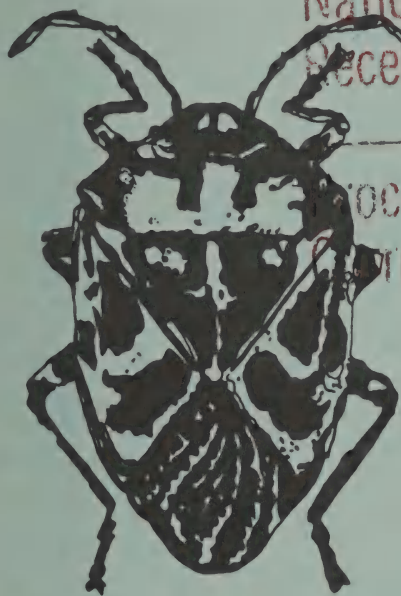
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

FALL ARMYWORM problems expected to increase on corn in Kentucky. Some heavy damage in Florida. Damage expected in northwestern area of South Carolina. (p. 502).

STRIPE RUST severe on many susceptible wheat cultivars in Pacific Northwest. (p. 504).

POTATO LEAFHOPPER may damage third-growth alfalfa in Wisconsin if hot conditions continue. (p. 507).

Alfalfa damaged by LYGUS BUGS in area of Utah. (p. 507).

CORN EARWORM infestations on soybeans heaviest on record for Arkansas. (p. 510).

Some First Occurrences of the Season

FALL ARMYWORM on corn in Maryland. WESTERN BEAN CUTWORM eggs on corn in Kansas.

Reports in this issue are for the week ending July 25 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus* (*Bipolaris*) *carbonum*) - ILLINOIS - District> County= prevalence/severity of imperfect stage on corn [silk emerged unless stated otherwise] leaves in 1 field each, week of July 14: NE> De Kalb= [tassel emerged], and Kane, Kendall, Will, E> Kankakee, Iroquois, and Vermilion= trace/trace. (E.G. Jordan).

COMMON SMUT (*Ustilago maydis*) - KANSAS - District> County= prevalence on corn, only foliar infections observed: SC> Pratt, Stafford, Kiowa, Pawnee, and Edwards= trace. (T. Sim, IV). ILLINOIS - District> County= prevalence on corn [host stage] plants in 1 commercial field each, week of July 14: NE> De Kalb= 2% [tassel emerged], Kane= 1% [silk emerged], Kendall= trace [silk emerged], Will= trace [silk emerged], E> Kankakee= trace [silk emerged], Iroquois= trace [silk emerged], and Vermilion= trace [silk emerged]. (E.G. Jordan).

WISCONSIN - District> County= common smut prevalence on sweet corn week ending July 3: SC> Dane= about 50% in 1 field. Certain varieties of sweet corn cannot be grown due to extreme susceptibility. (O.L. Lovett). GEORGIA - Area> prevalence per 25 corn [dent] plants July 21: SE> 16% in 2 fields. (K.L. Davenport).

COMMON MAIZE RUST (*Puccinia sorghi*) - KANSAS - Common on irrigated corn in south-central area, although prevalence and severity light. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host stage
SC> Pratt	trace	trace	green silk to early brown silk
SC> Kiowa	trace	trace	green silk
SC> Edwards	10	trace	green silk
SC> Stafford	trace	trace	green silk to early brown silk
SC> Pawnee	trace	trace	green silk
SC> Sedgwick	trace	trace	green silk

INDIANA - Common maize rust on corn June 30 to July 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	1	trace	midwhorl
NC> Kosciusko	trace	trace	midwhorl
NC> Elkhart	trace	trace	midwhorl
NE> Huntington	not seen	not seen	midwhorl
NE> Whitley	not seen	not seen	early whorl
NE> Noble	not seen	not seen	early whorl
NE> Steuben	not seen	not seen	midwhorl
NE> De Kalb	not seen	not seen	midwhorl
NE> Allen	not seen	not seen	midwhorl
NE> Allen	1	trace	late whorl
NE> Adams	not seen	not seen	early whorl
EC> Jay	trace	trace	midwhorl
EC> Blackford	trace	trace	late whorl

ILLINOIS - District> County= common maize rust prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 14: NE> De Kalb= 50%/trace [tassel emerged], Kane= 70%/trace [silk emerged], Kendall= 75%/trace [silk emerged], Will= 100%/trace [silk emerged], E> Kankakee= 90%/trace [silk emerged], Iroquois= 80%/trace [silk emerged], and Vermilion= 50%/trace [silk emerged]. (E.G. Jordan).

FUSARIUM STALK ROT (Gibberella (Fusarium) moniliforme) - KANSAS - District> County= prevalence of imperfect stage on sorghum [boot]: SC> Sumner= trace in 1 field. (T. Sim, IV).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicolum) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 14: NE> De Kalb= trace/trace [tassel emerged], E> Kankakee= 50%/trace [silk emerged], Iroquois= 60%/trace [silk emerged], Vermilion= 30%/trace [silk emerged]. (E.G. Jordan). INDIANA - Survey on corn June 30 to July 2 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
NC> Wabash	not seen	not seen	midwhorl
NC> Kosciusko	not seen	not seen	midwhorl
NC> Elkhart	5	3	midwhorl
NE> Huntington	not seen	not seen	midwhorl
NE> Whitley	not seen	not seen	early whorl
NE> Noble	not seen	not seen	early whorl
NE> Steuben	not seen	not seen	midwhorl
NE> De Kalb	not seen	not seen	midwhorl
NE> Allen	not seen	not seen	midwhorl
NE> Allen	not seen	not seen	late whorl
NE> Adams	not seen	not seen	early whorl
EC> Jay	not seen	not seen	midwhorl
EC> Blackford	not seen	not seen	late whorl

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Status on sorghum (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage (height)</u>
SE> Butler	trace	light	vegetative (13 cm)
SE> Cowley	trace	light	vegetative (13 cm)
SW> Hamilton	trace	light	-

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - Status on sorghum (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage (height)</u>
NE> Pottawatomie	trace	light	boot
SE> Butler	trace	light	boot
SC> Edwards	trace	light	vegetative (16 cm)
SC> Pawnee	trace	light	vegetative (16 cm)

MAIZE DWARF MOSAIC VIRUS - KANSAS - Some masking of symptoms due to high temperatures, some dryland corn appear not to be producing pollen due to unfavorable growing conditions. District> County= prevalence on corn [from tassel in north to early brown silk in south]: NE> Pottawatomie, Jackson, SC> Sedgwick, Pratt, Kiowa, and Stafford= trace. Prevalence on sorghum [boot]: NE> Pottawatomie= trace in 1 field. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - KANSAS - District> County= status on corn week ending July 18: NE> Leavenworth= first generation adults 90-95% emerged; second generation eggs, nearly all fresh, found (L.C. Ronczkowski); eggs on 20-30% of plants in Silver Lake area (D.D. Calvin, H.L. Brooks); C> Barton and SC> Stafford= eggs common (F.L. Poston); Kiowa= eggs in some fields, still mostly large larvae and pupae in field near Haviland (G.A. Salsbury); Main pest stage in 1 field each: SC> Kiowa= pupae, C> Barton= adults, SW> Ford= 5th, Seward= 5th, Haskell= 5th and pupae, Finney= 4th and 5th, Kearny= 5th and pupae, WC> Scott= 5th in 2 fields, Logan= 3rd and 4th, NW> Thomas= 4th and 5th, and 5th in second field. Survey of first generation on corn July 15-16 (K.O. Bell, Jr., G.A. Salsbury):

District> County	Plants infested (%)	Host stage	Number of fields
C> Barton	28	early tassel	1
SW> Ford	0-4	1.6 m tall to tassel	2
SW> Seward	1-5	tassel to silk	3
SW> Stevens	-	early tassel	1
SW> Haskell	32	silking	1
SW> Finney	trace to 2	1.6 m tall to tassel	2
SW> Kearny	84	early tassel	1
WC> Scott	2-24	tassel to silk	2
WC> Logan	2	early tassel	1
NW> Thomas	6-10	tassel to silk	2
SC> Kiowa	0-3	2 m tall to silk	2

ILLINOIS - District> County= European corn borer status week ending July 18: C> Peoria and Mason= light trap counts increased to 30 and 60 per night, respectively, and southern two-thirds area> larvae per 100 plants well below 10, pupae and empty puparia in number of fields suggested that egg laying and adult flight already taking place, counts in first generation survey continued to indicate lower population levels than in 1979. (A.M. Agnello).

WISCONSIN - Second European corn borer flight underway in advanced areas week ending July 18. Degree-day (DD) accumulations enough for emergence of first adults of second flight. District> County= status July 15: SC> Dane= appearance of few adults in blacklight trap indicates flight began at Mazomanie, flight usually begins about 778 DD and peak at about 961 DD, base 10°C; Rock= dissection of cornstalks found 50% to be 5th instars, 20% to be 4th instars, and 30% pupae; SW> Sauk at Spring Green, and Central Sands= pupae less numerous and 3rd instar larvae common. Continued hot, humid weather could result in intense activity in next 3 periods. (O.L. Lovett).

KENTUCKY - District> County= European corn borer on corn week ending July 18: Bluegrass> Shelby= late instar larvae and pupae in fields and Fayette= few adults in light traps at Lexington, indicates second generation will soon be starting. (P.E. Sloderbeck): MARYLAND - Area> larval status on corn: Eastern Shore> second brood appeared. (R. Hochmuth).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - ALABAMA - District> County= status on sorghum week ending July 18: SE> Houston= damage heavy to 3-week-old plants (C. Chapman) and Wiregrass area> light (P.P. Cobb). SOUTH CAROLINA - District> County= status on grain sorghum [seedling] week ending July 18: NW> Anderson= damage heavy, about 50% stand loss in 20-ha field. (R.B. Griffin).

FALL ARMYWORM (*Spodoptera frugiperda*) - KENTUCKY - District> County= status on corn [host stage if given] week ending July 18: Several counties throughout State including C> Meade, Nelson, Purchase> Calloway, Midwestern> Christian, Henderson, and Union= larvae on late-planted corn, damage very light and restricted to scattered plants in field. Populations may increase rapidly to damaging levels. Currently: Larvae increased with few fields at or near economic levels. Bluegrass> Bourbon= damage near economic level in some fields [early silk], damaged 50% of plants; Fayette= damage severe in 0.10-ha sweet corn [whorl] planting; and C> Warren= infested about 20% of 1 field [whorl]. Problems expected to increase in number and severity. (P.E. Sloderbeck).

FLORIDA - District> County= fall armyworm on corn July 16-17: NE> Madison= larvae averaged 3-4 per ear, damage heavy in 10-ha planting of field corn and in other fields. (R.K. Sprengel). C> St. Johns= all stages present, populations heavy, on sorghum and field corn grown as cover and grain crops in Hastings area, damage economic. Males in 3 traps totaled 227, 184, 78, and 101 weekly for last 4 periods, last trap total began July 16 (R.B. Workman). Alachua= populations moderate to heavy on untreated field corn at Alachua, about normal for time of year. Most sweet corn plantings harvested. (F. Tingle).

SOUTH CAROLINA - District> County= fall armyworm on corn week ending July 18: NW> Spartanburg= heavily infested whorls in 20-ha field, heavy damage expected and controls recommended. (R.P. Griffin, G. Bowen). MARYLAND - First of season. District> County= status on corn [0.6-0.9 m tall]: Eastern Shore> Talbot and Wicomico= noted. (R. Hochmuth).

CORN EARWORM (*Heliothis zea*) - KANSAS - District> County= status week ending July 18: SE> Bourbon= heavy on ears in some corn fields and SE area> adult counts increased in light traps. (G.E. Lippert). ALABAMA - Area> status on corn week ending July 18: Statewide> generally light to moderate and Coastal Plains> heavy in 2 of 3 fields. (P.P. Cobb). Larvae (average) per 25 corn [host stage] plants July 22: Coastal Plains> 5th instars 25-28 (26.5) [mature] in 2 fields (T. Lemons) and Sand Mountain> 3rd to 4th instars 2-4 (3.5) [tassel] in 6 fields (W.A. Smith).

GEORGIA - Area> corn earworm larvae (average) per 25 corn [host stage] plants July 21: SE> 1st to 5th instars 1-16 (4.6) [soft dough to dent] in 5 fields (K.L. Davenport, T.H. Murphy) and N> 3rd to 5th instars 1-16 (6) [soft dough to dent] in 3 fields. Dry weather cut yield 50% in some fields. Irrigated corn did very well. (E.W. Elder). MARYLAND - Populations very light on sweet corn this season. Area> status on corn: Eastern Shore> minimal hectares needed treatment, less than 10%. (R. Hochmuth).

WESTERN BEAN CUTWORM (*Loxagrotis albicosta*) - KANSAS - District> County= status on corn week ending July 18: SW> Finney= first eggs of season (D.E. Mock); adults flew as far north and west as NW> Sherman County (G.E. Sanden, K.O. Bell, Jr.).

CORN ROOTWORMS (*Diabrotica* spp.) - KANSAS - District> County= adults on corn week ending July 18: NE> Leavenworth= averaged 1-4.5 per plant in many fields (L.L. Bonczkowski) and SE> Bourbon= generally light but up to 4 per plant (G.E. Lippert). ILLINOIS - Area> NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) adults on corn week ending July 18: C> already emerged and N> just beginning, expected to be heaviest in corn following corn and in late-maturing corn, and C and E> controls underway; WESTERN CORN ROOTWORM (*Diabrotica virgifera*): WSW> Greene= up to 6 per plant, SE> Edwards= up to 4 on random inspection, S and C areas> emergence nearly completed, and N area> emergence more than half completed. (A.M. Agnello).

WISCONSIN - *Diabrotica longicornis* and *Diabrotica virgifera* emergence underway in southern area. District> County= *Diabrotica* spp. status week ending July 18: Most of southern one-third area> adults light on silking corn, can be expected to increase rapidly next 3 periods. Lodging due to larval feeding should show up after this period's storms. (O.L. Lovett).

KENTUCKY - Corn rootworm adults began to show up in corn fields [starting to silk]. (P.E. Sloderbeck). INDIANA - District> County= adults on corn July 1-10: WC> Tippecanoe= *Diabrotica virgifera* 329, *Diabrotica longicornis* 29, and SOUTHERN CORN ROOTWORM (*Diabrotica undecimpunctata howardi*) none from 13.4 sq m of untreated field (M. Bergman); S> western corn rootworm trace except in SC> Lawrence, Jackson, and SE> Jennings= averaged up to 1 per stalk; northern corn rootworm trace, if present at all, in all fields surveyed including some central district fields south of Indianapolis. (R.W. Meyer).

WHITE GRUBS - FLORIDA - District> County= status of *Cyclocephala parallela* and *Bothynus subtropicus* on sugarcane July 24: S> Palm Beach= emergence period of adults finished by mid-July in Okeechobee growing area, vicinity of Belle Glade; mixed populations of 1st and 2nd instar larvae in fields; 3rd instar larvae will start feeding on root system by end of July, feeding will result in noticeable plant injury by mid to late August. Depending upon larval activity under stubble, lodging expected to be seen by end of August to early September. (C.M. Watve).

CORN LEAF APHID (*Rhopalosiphum maidis*) - ILLINOIS - District> County= status week ending July 18: C> Tazewell= relatively heavy infestations in fields in sandy areas, C counties> large colonies of 100+ per plant continued to be seen throughout area, and S area> smaller or sporadic groups of fewer than 25 per plant. (A.M. Agnello). WISCONSIN - District> County= status on corn week ending July 18: SW> Sauk and Grant= populations about 1,000 per plant on less than 2% of plants, generally light with infested plants having colonies of fewer than 50 aphids. (O.L. Lovett).

CHINCH BUG (*Blissus leucopterus leucopterus*) - KANSAS - Area> status week ending July 18: E> second generation nymphs often heavy on sorghum in some areas (S.C. White et al.), heavy on sorghum as far west as central Lincoln County, and light on corn in central Barton County. (K.O. Bell, Jr.).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) light on wheat in commercial fields and light to heavy on susceptible cultivars in plots throughout north-central States, July 9-22. No losses will occur in this area. Losses will be significant in Pacific Northwest where leaf rust developed to epidemic levels on most of winter and spring wheat. (Line). INDIANA - More prevalent disease on wheat in northeastern area, combined with SPECKLED LEAF BLOTCH (*Septoria tritici*) and senescence to cause extensive late-season chlorosis and necrosis June 30 to July 2. Survey on flag leaf and leaf below flag leaf on wheat in commercial fields (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
June 4-6:			
WC> Tippecanoe	trace	trace	milk development
NW> White	not seen	not seen	milk development
NW> Porter	not seen	not seen	milk development
NW> La Porte	not seen	not seen	milk development
NC> St. Joseph	not seen	not seen	milk development
NC> Marshall	not seen	not seen	milk development
NC> Fulton	not seen	not seen	milk development
NC> Cass	not seen	not seen	milk development
NC> Carroll	trace	trace	milk development
C> Howard	trace	5	milk development
C> Clinton	not seen	not seen	milk development
C> Boone	5	trace	milk development

June 30 to July 2:

NC> Wabash	99	40	dough development
NC> Kosciusko	99	30	milk development
NC> Elkhart	99	30	dough development
NE> Huntington	99	30	dough development
NE> Whitley	99	7	dough development
NE> Noble	99	25	dough development
NE> Steuben	99	35	dough development
NE> De Kalb	99	20	dough development
NE> Allen	99	15	ripening
NE> Allen	99	55	dough development
NE> Adams	99	10	ripening
EC> Jay	99	10	ripening
EC> Blackford	99	8	ripening

Development of severe levels of STRIPE RUST (*Puccinia striiformis*) on many susceptible wheat cultivars throughout much of Pacific Northwest favored by cool, wet weather July 9-22. Losses will be significant in fields of 'Fieldier' and 'Fieldwin' spring wheat. (Line).

BARLEY LEAF RUST (*Puccinia hordei*) nearly absent in spring barley area of Great Plains except trace in few SOUTH DAKOTA fields, July 9-22. Major reason for scarcity due to lack of southern source of inoculum. (R.P. Roelfs, D. Long).

Few pustules of OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) on commercial oats in northern area July 9-22. Inoculum levels low and there will be no loss except for fields near *Frangula* spp. (buckthorn). (R.P. Roelfs, D. Long).

For STEM RUSTS on small grains, see page 514.

SPECKLED LEAF BLOTCH (*Septoria tritici*) - INDIANA - Widespread in northeastern area June 30 to July 2, combined with more prevalent WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) and senescence to cause late-season chlorosis and necrosis. Survey on flag leaf and leaf below flag leaf on wheat in commercial fields (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
June 4-6:			
WC> Tippecanoe	trace	trace	milk development
NW> White	not seen	not seen	milk development
NW> Porter	trace	trace	milk development
NW> La Porte	not seen	not seen	milk development
NC> St. Joseph	trace	trace	milk development
NC> Marshall	10	1	milk development
NC> Fulton	80	1	milk development
NC> Cass	30	trace	milk development
NC> Carroll	trace	1	milk development
C> Howard	not seen	not seen	milk development
C> Clinton	trace	trace	milk development
C> Boone	trace	trace	milk development

June 30 to July 2:

NC> Wabash	90	5	dough development
NC> Kosciusko	90	5	milk development
NC> Elkhart	95	10	dough development
NE> Huntington	90	5	dough development
NE> Whitley	99	7	dough development
NE> Noble	90	10	dough development
NE> Steuben	90	10	dough development
NE> De Kalb	99	20	dough development
NE> Allen	99	15	ripening
NE> Allen	trace	trace	dough development
NE> Adams	99	13	ripening
EC> Jay	99	7	ripening
EC> Blackford	99	25	ripening

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - INDIANA - Survey on flag leaf and leaf below flag leaf on wheat cultivars in commercial fields (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
June 4-6:			
WC> Tippecanoe	not seen	not seen	milk development
NW> White	not seen	not seen	milk development
NW> Porter	90	5	milk development
NW> La Porte	70	trace	milk development
NC> St. Joseph	20	trace	milk development

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
NC> Marshall	30	trace	milk development
NC> Fulton	trace	1	milk development
NC> Cass	not seen	not seen	milk development
NC> Carroll	trace	trace	milk development
C> Howard	not seen	not seen	milk development
C> Clinton	not seen	not seen	milk development
C> Boone	not seen	not seen	milk development

June 30 to July 2:

NC> Wabash	not seen	not seen	dough development
NC> Kosciusko	trace	trace	milk development
NC> Elkhart	trace	trace	dough development
NE> Huntington	not seen	not seen	dough development
NE> Whitley	not seen	not seen	dough development
NE> Noble	not seen	not seen	dough development
NE> Steuben	not seen	not seen	dough development
NE> De Kalb	not seen	not seen	dough development
NE> Allen	not seen	not seen	ripening
NE> Allen	not seen	not seen	dough development
ME> Adams	not seen	not seen	ripening
EC> Jay	not seen	not seen	ripening
EC> Blackford	not seen	not seen	ripening

SCAB (*Fusarium* spp.) - INDIANA - Survey on wheat heads June 30 to July 2 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
NC> Wabash	2	dough development
NC> Kosciusko	1	milk development
NC> Elkhart	trace	dough development
NE> Huntington	trace	dough development
NE> Whitley	8	dough development
NE> Noble	2	dough development
NE> Steuben	not seen	dough development
NE> De Kalb	1	dough development
NE> Allen	trace	ripening
NE> Allen	1	dough development
NE> Adams	1	ripening
EC> Jay	not seen	ripening
EC> Blackford	not seen	ripening

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Still only active alfalfa disease to date, activity light. Status on alfalfa (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host height (cm)</u>
NE> Pottawatomie	30	0	36
NE> Jackson	80	0	56
SE> Butler	trace	0	38
SE> Cowley	not seen	-	no data
SC> Edwards	trace	0	36-91
SC> Stafford	10	0	76
SC> Sedgwick	not seen	-	no data
SC> Harvey	trace	-	no data
SC> Reno	not seen	-	no data
C> Barton	not seen	-	no data
C> Ellsworth	not seen	-	no data

INSECTS

POTATO LEAFHOPPER (*Empoasca fabae*) - WISCONSIN - District> County= status week ending July 18: SC> Dane= adults heavy in blacklight traps; SW> Sauk, Iowa, and Grant= up to 5 per sweep on mature second growth alfalfa; and C> Marquette, Adams, Juneau, NW> Washburn, NE> Shawano, EC> Outagamie SC> Rock, and SE> Walworth= counts almost near 1 per 10 sweeps. Damage possible for third growth, especially if hot conditions continue. (O.L. Lovett). MARYLAND - Very heavy statewide. Area> status on forage legumes: C> most heavily infested area, adults averaged 4-5 per sweep, except for NC district> Howard County= nymphs 45 and adults 10 per sweep of second growth alfalfa [early bloom] in 1 field; and W and Eastern Shore> counts somewhat lighter, adults averaged 2-3 per sweep. (R. Hochmuth).

PEA APHID (*Acyrtosiphon pisum*) - UTAH - District> County= counts on alfalfa week of July 17: C> Millard= 5,000 per 20 sweeps in 2 fields, required controls in some fields at Delta, and N> Cache= 700-800 per 25 sweeps at north Logan and Hyde Park areas. (D.W. Davis). WISCONSIN - District> County= status on alfalfa week ending July 18: C> Green Lake= very heavy, 500+ per sweep; and EC, SC, and SW areas> 100+ per sweep common in some counties. (O.L. Lovett).

LYGUS BUGS (*Lygus* spp.) - UTAH - District> County= status on alfalfa week of July 17: N> Box Elder= loss of seed crop on several hundred hectares on ranches west of Snowville and several hundred hectares cut for hay. Other ranches had drought and control applied so late that seed prospects very poor. (W.P. Nye). ARIZONA - District> County= counts per 100 sweeps of alfalfa: C> Maricopa= adults 32, Pinal= nymphs 20 and adults 32, SW> Yuma= nymphs and adults 56-112. SE> Pinal= adults 6, and Graham= nymphs and adults 40. (F. Brooks et al.).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*) - KANSAS - District> County= prevalence on soybeans [6 nodes]: SE> Butler= 1% in 1 field. (T. Sim, IV). INDIANA - Survey on soybeans June 30 to July 2 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
NC> Wabash	not seen	not seen	6 nodes
NC> Kosciusko	not seen	not seen	5 nodes
NC> Elkhart	not seen	not seen	6 nodes
NE> Huntington	not seen	not seen	trifoliate leaf

District> County	Prevalence (%)	Severity (%)	Host stage
NE> Whitley	not seen	not seen	unifoliolate leaves
NE> Noble	not seen	not seen	5 nodes
NE> Steuben	not seen	not seen	4 nodes
NE> De Kalb	trace	trace	6 nodes
NE> Allen	not seen	not seen	3 nodes
NE> Adams	not seen	not seen	4 nodes
EC> Jay	not seen	not seen	unifoliolate leaves
EC> Blackford	trace	trace	7 nodes

SOYBEAN BROWN SPOT (*Septoria glycines*) - INDIANA - Survey on soybeans June 30 to July 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	not seen	not seen	6 nodes
NC> Kosciusko	80	8	5 nodes
NC> Elkhart	trace	trace	6 nodes
NE> Huntington	not seen	not seen	trifoliolate leaf
NE> Whitley	not seen	not seen	unifoliolate leaves
NE> Noble	not seen	not seen	5 nodes
NE> Steuben	not seen	not seen	4 nodes
NE> De Kalb	not seen	not seen	6 nodes
NE> Allen	not seen	not seen	3 nodes
NE> Adams	not seen	not seen	4 nodes
EC> Jay	not seen	not seen	unifoliolate leaves
EC> Blackford	not seen	not seen	7 nodes

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - INDIANA - Survey on soybean leaves June 30 to July 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	not seen	not seen	6 nodes
NC> Kosciusko	not seen	not seen	5 nodes
NC> Elkhart	not seen	not seen	6 nodes
NE> Huntington	not seen	not seen	trifoliolate leaf
NE> Whitley	not seen	not seen	unifoliolate leaves
NE> Noble	not seen	not seen	5 nodes
NE> Steuben	not seen	not seen	4 nodes
NE> De Kalb	trace	trace	6 nodes
NE> Allen	not seen	not seen	3 nodes
NE> Adams	not seen	not seen	4 nodes
EC> Jay	not seen	not seen	unifoliolate leaves
EC> Blackford	not seen	not seen	7 nodes

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - KANSAS - District> County= prevalence on soybeans [full bloom]: SC> Edwards and Stafford= trace in 1 field each. (T. Sim, IV). INDIANA - Most prevalent disease on soybeans in north-eastern quarter. Survey on soybean leaves June 30 to July 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	15	5	6 nodes
NC> Kosciusko	50	5	5 nodes
NC> Elkhart	50	10	6 nodes

District> County	Prevalence (%)	Severity (%)	Host stage
NE> Huntington	not seen	not seen	trifoliolate leaf
NE> Whitley	not seen	not seen	unifoliolate leaves
NE> Noble	1	trace	5 nodes
NE> Steuben	not seen	not seen	4 nodes
NE> De Kalb	trace	trace	6 nodes
NE> Allen	not seen	not seen	3 nodes
NE> Adams	trace	2	4 nodes
EC> Jay	not seen	not seen	unifoliolate leaves
EC> Blackford	70	8	7 nodes

SOYBEAN MOSAIC VIRUS - INDIANA - Survey on soybeans June 30 to July 2 (R.A. Schall):

District> County	Prevalence (%)	Host stage
NC> Wabash	trace	6 nodes
NC> Kosciusko	not seen	5 nodes
NC> Elkhart	not seen	6 nodes
NE> Huntington	not seen	trifoliolate leaf
NE> Whitley	not seen	unifoliolate leaves
NE> Noble	not seen	5 nodes
NE> Steuben	not seen	4 nodes
NE> De Kalb	not seen	6 nodes
NE> Allen	not seen	3 nodes
NE> Adams	not seen	4 nodes
EC> Jay	not seen	unifoliolate leaves
EC> Blackford	trace	7 nodes

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - GEORGIA - Area> adults (average) per 4.6 row m of soybeans [host stage] July 21: SW> 1 (1) [4th to 8th node] with less than 5% leaf loss in 3 fields (G. Galbreath), and SE> 2-3 (2.5) [full bloom] in 2 fields (K.L. Davenport). TENNESSEE - Area> status on soybeans week ending July 11: Upper Cumberland Plateau> infestations very heavy, defoliation up to 85% on some plants. (D. Buhaly).

INDIANA - District> County= Mexican bean beetle on soybeans [development no further than flower below uppermost node, occasional field with pod 0.5 cm] week of July 17: C districts south of Indianapolis, and S districts> mostly late larvae and pupae, some new adults in SC> Jackson and Monroe Counties with good numbers in SE> Clark County; SC> Jackson and Lawrence= few early instar larvae of second generation seen; SE> Jefferson= counts light north of Madison except in Jennings County; Clark and Jennings= counts heavy, few if any economic, but combined larval, pupal, and adult populations great enough to produce populations that can threaten; SC> Jackson, Lawrence, and Monroe= heaviest populations of district; Monroe and SE> Clark= all stages 0-16 with 16 in latter county. (R. Flanders, R.W. Meyer).

MARYLAND - District> County= Mexican bean beetle on soybeans: Eastern Shore area> populations moderate, defoliation averaged 10% on full season beans [entering bloom] and NC> Howard= defoliation less than 1% on full season beans [still prebloom]. (R. Hochmuth).

CORN EARWORM (*Heliothis zea*) - ARKANSAS - Area> status on soybeans [host stage] week ending July 18: Southern half of State> larvae full-grown [up to 4 trifoliolate leaves], infestations heaviest on record; week ending July 25: Statewide> counts up to 6 per 0.3 row m [young soybeans], adults emerged heavily from older fields, foliar and terminal damage heavy. (G. Barnes).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - FLORIDA - District> County= status on soybeans July 23: NE> Madison= not currently a problem and NW> Jackson= damage heavy, infested 50-60% of late-planted fields. About 50% of plants dead or dying, at least 50% of stand will be lost in a 12-ha field. (R.K. Sprenkel). GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [7th node to beginning bloom] and percent leaf loss July 21: SW> 1 (1) and less than 5% in 3 fields. (G. Galbreath).

POTATO LEAFHOPPER (*Empoasca fabae*) - MARYLAND - Area> counts per sweep of full season soybeans: Eastern Shore and C> averaged 2-3. (R. Hochmuth).

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - MARYLAND - Area> status on soybeans: Throughout Eastern Shore> spotty, heavy mostly along edges of infested fields. (R. Hochmuth).

PEANUTS

INSECTS

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - FLORIDA - District> County= averages per 0.3 row m of untreated peanuts: NW> Jackson= 3 on July 10, and 0.7 on July 16 in heavier soils at Greenwood. More troublesome in sandier soils. Drought slowed growth of plants; rainfall below normal April 29 to July 17. (W.B. Tappan).

TOBACCO THRIPS (*Frankliniella fusca*) - FLORIDA - District> County= status on peanuts week of July 17: NW> Jackson= populations generally light on unsprayed peanuts at Greenwood, 67% of plants showed some damage but yield not expected to be affected; populations decreased and are close to 1979 levels which averaged 1.1 per bud compared with 1.8 per bud in 1980. (W.B. Tappan).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Counts and punctured squares heavy in Lower Rio Grande Valley and Blacklands area. Populations in Gulf Coast, Rolling Plains, and other areas of State decreased due to hot, dry weather. (J.A. Jackman). Counts on cotton (J.W. Norman et al.):

District> County	Counts
July 7-11:	
Lower Valley> Cameron	0-54 per 100 plants
Lower Valley> Cameron	punctured squares 0-72 per 100 plants
Lower Valley> Hidalgo	0-68 per 100 plants
Lower Valley> Hidalgo	punctured squares 0-46 per 100 plants
Lower Valley> Willacy	0-52 per 100 plants
Lower Valley> Willacy	punctured squares 0-32 per 100 plants

District> County	Counts
Coastal Bend> Refugio at Austwell and Tivoli	problem
Upper Coast> Fort Bend	punctured squares 0%
Upper Coast> Brazoria	punctured squares 0-6%
SC> Austin	punctured squares 0-6%
Blacklands> Hill & Johnson	punctured squares 1-61%
Blacklands> Ellis & Navarro	punctured squares 8-53%
Blacklands> Collin & Hunt	punctured squares 0-33%
Southern Low Plains> Fisher at Roby and Rotan	adults 5 in 2 traps
Southern Low Plains> Fisher	adults 2 in 1 trap
Southern Low Plains> Jones	1 adult trapped

July 11-18:

Lower Valley> Cameron	0-36 per 100 plants
Lower Valley> Cameron	punctured squares 0-72 per 100 plants
Lower Valley> Cameron	punctured squares 0-33 per 100 plants
Lower Valley> Cameron	punctured squares 0-78 per 100 plants
Lower Valley> Hidalgo	0-92 per 100 plants
Lower Valley> Hidalgo	punctured squares 0-60 per 100 plants
Lower Valley> Hidalgo	0-84 per 100 plants
Lower Valley> Hidalgo	punctured squares 0-68 per 100 plants
Lower Valley> Willacy	0-17 per 100 plants
Lower Valley> Willacy	punctured squares 0-27 per 100 plants
Lower Valley> Willacy	0-32 per 100 plants
Lower Valley> Willacy	punctured squares 0-25 per 100 plants
SC> Austin	0-4%
Blacklands> Ellis & Navarro	punctured squares 8-49%
Blacklands> Collin & Hunt	punctured squares 0-65%
Blacklands> Williamson & Milam	punctured squares 0-42%
Southern Low Plains> Knox	punctured squares less than 5%
Southern Low Plains> Runnels	punctured squares up to 8%

ALABAMA - Boll weevil punctured square damage 15-20% or less in most cotton fields in central and southern areas week ending July 18; most untreated fields remaining at this level, exceeded 30% in few fields. District> County= status on cotton: Upper South Central> Lowndes, Autauga, Dallas, and WC> Marengo= second field generation "hatchout" began on old cotton (G. Worley); and N area> activity light, 20 per 100 terminals in previously treated fields, in first weevil "hatchout," populations lighter than anticipated (B. Freeman). SOUTH CAROLINA - District> County= status on cotton week ending July 18: C> Calhoun, E> Dillon, Marlboro, and other cotton counties= infestations light to heavy; damaged squares 5-10% in many fields and 30-48% in few fields. (D.R. Johnson).

BOLLWORMS (*Heliothis* spp.) - TEXAS - BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) egg laying underway in most cotton areas week ending July 18. Populations heaviest in Lower Rio Grande Valley and Blacklands areas. (J.A. Jackman). Problems occurred in Coastal Bend district> Refugio County in Austwell and Tivoli areas July 7. (R.D. Parker). Currently: Populations increased rapidly across State. Adults heavy in parts of Rolling Plains and South Plains areas. (J.A. Jackman). Counts on cotton (J.W. Norman et al.):

District> County	Eggs	Larvae	Damaged squares	Unit sample
July 3-11:				
Lower Valley> Cameron	0-100	0-27	0-24	100 plants
Lower Valley> Hidalgo	0-130	0-26	0-31	100 plants
Lower Valley> Willacy	0-40	0-26	0-30	100 plants
Upper Coast> Fort Bend	0-3%	0-24%	0-24%	in terminals
Upper Coast> Brazoria	0-2%	0-8%	0-14%	in terminals
SC> Austin	0-64%	0-4%	0-4%	in terminals
Blacklands> Hill & Johnson	0-35	-	-	100 terminals
Blacklands> Ellis & Navarro	6-30	-	-	100 plants
Blacklands> Collin & Hunt	2-34	0-26	4-56%	100 terminals
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	up to 60	up to 45	-	100 terminals
Edwards Plateau> Reagan	0-4	0-1	0%	100 terminals
Edwards Plateau> Upton & Southern High Plains> Midland	0-10	0	-	100 terminals
Southern High Plains> Glasscock at St. Lawrence	0-1	0-1	0-2%	100 terminals
Trans-Pecos> El Paso	0-40%	0-7%	-	-
Trans-Pecos> Pecos	2-3%	-	-	-

July 11-18:

Lower Valley> Cameron	0-38	0-38	0-20	100 plants
Lower Valley> Cameron	0-25	0-24	0-22	100 plants
Lower Valley> Hidalgo	0-63	0-42	0-46	100 plants
Lower Valley> Hidalgo	0-45	0-42	0-46	100 plants
Lower Valley> Willacy	0-61	0-12	0-16	100 plants
Lower Valley> Willacy	0-28	0-22	0-16	100 plants
Upper Coast> Fort Bend	0-9%	0-1%	0-16%	in terminals
Upper Coast> Brazoria	0-2%	0-2%	0-6%	in terminals
SC> Austin	0-16%	0%	0-16%	in terminals
Blacklands> Ellis & Navarro	up to 20	2-22	-	100 plants
Blacklands> Collin & Hunt	0-109	0-24	0-80%	100 terminals
Blacklands> Williamson & Milam	0-77	0-35	-	100 plants
Southern High Plains> Crosby	-	8%	-	-
Southern High Plains> Lubbock-- south of Lubbock	averaged up to 20,000	averaged up to 6,500	-	-
Southern Low Plains> Mitchell	-	-	0-8%	-
Southern Low Plains> Fisher & Jones	-	-	13%	-
Southern Low Plains> Scurry	-	0-5	-	100 terminals
Edwards Plateau> Tom Green at San Angelo	up to 60	up to 45	-	100 plants
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	-	-	less than 30%	-

Heliothis zea counts on cotton July 18 (C.W. Neeb):

District> County	Counts per 100 plants		
	Eggs	Larvae	Damaged squares
Trans-Pecos> El Paso	0-22	0-26	0-30
Trans-Pecos> Hudspeth	0-25	0-20	0-25
Trans-Pecos> Culberson	5-40	0-20	0-30
Trans-Pecos> Pecos	0-30	0-15	0-25
Trans-Pecos> Reeves	0-30	0-20	0-30
Southern High Plains> Martin	0-5	0-8	0-5
Southern High Plains> Andrews	0-10	0-5	0-5
Southern High Plains> Howard	0-8	0-5	0-6
Southern High Plains> Glasscock	0-70	0-60	0-50
Edwards Plateau> Reagan	0-50	0-40	0-40
Edwards Plateau> Upton	0-25	0-5	0-10

ALABAMA - Area> Heliothis zea and Heliothis virescens on cotton week ending July 18: S and C> increased in scattered fields, varied widely among some fields on same farm; 0-60 per 100 terminals, some fields with 15-25% 1 to 4-day-old larvae in terminal, most eggs laid on stems, bracts, and squares. Insufficient increase in light traps. (G. Worley). SOUTH CAROLINA - District> County= Heliothis spp. on cotton week ending July 11: C> Richland= eggs up to 9 per 100 plants, larvae 3% large and 3% small, square damage about 6% (D.G. Manley). Eggs generally light in cotton area week of July 14. Pee Dee region> eggs 0-4 per 100 plants and Savannah Valley> eggs 1-2 per 100 plants, Clarendon and Calhoun= eggs heaviest, 10-20 per 100 plants (D.G. Manley, J.W. Chapin).

POTATOES, TOMATOES, PEPPERS

DISEASES

TOMATO EARLY BLIGHT (Alternaria solani) - MARYLAND - Area> status on tomatoes: Eastern Shore> controls recommended. (R. Hochmuth, Kantzes).

INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - WISCONSIN - District> County= status on potatoes week ending July 18: NE> Langlade at Antigo, and Central Sand area> eggs, larvae, and adults seen, Langlade= larvae up to 25 per plant, averaged 1 or 2 in Antigo area, and C area> many gardens infested. (O.L. Lovett). MARYLAND - District> County= status on tomatoes: Eastern Shore> Wicomico= infestations heavy, defoliation complete on direct-seeded plantings in some areas. (R. Hochmuth).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WISCONSIN - Adults in pheromone traps can be expected to increase in next couple of weeks, peak of flight should occur at 876.1 degree-days (base 10°C). (O.L. Lovett).

APPLE MAGGOT (Rhagoletis pomonella) - WISCONSIN - First adults of season. District> County= status week ending July 3: SC> Dane= caught on sticky red sphere at 1 site, control should be underway. (O.L. Lovett).

BLACKMARGINED APHID (*Monellia caryella*) - ARIZONA - District> County= nymphs and adults per 100 pecan terminals: C> Pinal= 274. (T. Brooks).

CITRUS

INSECTS

CITRUS RUST MITE (*Phyllocoptruta oleivora*) - FLORIDA - Increased on citrus, became detectable first week in July, russetting evident July 23. (R.C. Bullock)

FEDERAL AND STATE PROGRAMS

DISEASES

First MINNESOTA aecial collections of BLACK STEM RUST (*Puccinia graminis*) from *Berberis* spp. (barberry) in 1980 made June 23 in Fillmore County. (Landon et al.).

OAT STEM RUST (*Puccinia graminis* f.sp. *avenae*) reached epidemic levels in some central ILLINOIS oat nurseries July 9-22. (Jedlinski). Found in commercial fields throughout eastern SOUTH DAKOTA, northwestern IOWA, and southern MINNESOTA. Severe in single trap plot in west-central Minnesota. Trace on susceptible cultivars in nurseries and on wild oats in southeastern NORTH DAKOTA and adjacent Minnesota. Due to advanced crop maturity, low rainfall, and small inoculum source in the south, disease severities low and losses will be very light. Few late fields in Minnesota could become severely diseased. Following races identified from collections received before July 22 (R.P. Roelfs, D. Long):

Area	Number of collections	Number of isolates of each race			
		NA-16	NA-16	NA-23	NA-27
TX, S	44	67	2	11	42
TX, C	93	18	21		235
TX, N	16	5	8	2	29
GA	1				3
LA	2		3		3
OK	1				3
KS	1				3
Mexico, NE	9				13
Mexico, C	8	1	5	1	10
Mexico, NW	10		14		15

WHEAT STEM RUST (*Puccinia graminis* f.sp. *tritici*) trace on winter wheat in plots at Brookings, SOUTH DAKOTA (Wells), and Casselton, NORTH DAKOTA (Miller), and in commercial field in Columbia County, WISCONSIN (Wallace), July 9-22. Trap plots of susceptible spring wheat 'Baart' rusted severely at Waseca, moderately at Lamberton, and lightly at Morris in southern MINNESOTA. No stem rust farther north. Isolates from summer spread of rust into northeastern MEXICO identified as race 151-QFB. (R.P. Roelfs, D. Long).

For other rusts on small grains, see p. 504.

INSECTS

GRASSHOPPERS - OREGON - County= status of mostly Melanoplus spp., July 14-18: Wasco= cooperative rangeland control program in progress, 8,093.7 of 9,307.8 infested hectares treated (J.L. Mellott), Baker and Malheur= cooperative rangeland control program in progress, 97,124.9 of 183,728 infested hectares treated (R.L. Penrose), and Klamath= infestation economic, 10-40 per 0.8 sq m extended to 6,070.3-8,093.7 ha of Klamath marsh (K. Goeden, J. LaBonte). UTAH - District> County= status of mostly Melanoplus spp. nymphs week of July 17: N> Cache= moved from uncultivated foothill lands to damage alfalfa field margins. (D.W. Davis). NEW MEXICO - District> County= grasshopper status: SW> Catron and Grant= control programs completed on July 2, 35,763 ha treated. (M. Gilmore). Average per 25 sweeps of alfalfa week ending July 18: NW> Valencia= mostly 2nd and 3rd instar nymphs 10-50+, very heavy along fence rows and ditchbanks. (C. Heninger).

TEXAS - Grasshoppers continued problem in Panhandle and Plains areas of State. (J.A. Jackman). District> County= status July 11: Southern Low Plains> Fisher and Jones= most hatched, and Panhandle area> 400,000+ ha treated. (C.D. Patrick). KANSAS - Grasshoppers moved into alfalfa from weedy field margins in some areas as weeds became less attractive due to dry weather and defoliation. District> County= status week ending July 18: NC> Osborne, SE> Butler, and SC> Kiowa= significant alfalfa field border damage in isolated cases (K.O. Bell, Jr, G.A. Salsbury); EC> Anderson, C> Barton, and SE> Bourbon= moved into and damaged outer rows of corn in isolated cases (S.C. White et al.); Anderson= mostly Melanoplus differentialis averaged 15 per 0.8 sq m in corn fields and 30 in margin in an unusual situation (S.C. White). Adults per 0.8 sq m of rangeland and pastures: SE> Butler= averaged up to 1, SC> Sedgwick= 0-2, Kiowa= 0.5-8, and Comanche= 4-15 (G.A. Salsbury), WC> Wichita= trace to 3 on rangeland; Greeley= 3-5; SW> Hamilton= 2-5 mostly adults (M.L. Shuman); WC> Logan= averaged 6-7 at 2 stops in southeastern area, mostly adults, weed-feeding species (mostly Hesperotettix viridis) heavier than grass-feeding species; SW> Haskell and NC> Osborne= Melanoplus differentialis mostly nymphs in waste areas, Melanoplus bivittatus adults common; few Melanoplus sanguinipes nymphs in Haskell County and Melanoplus femurrubrum in Osborne County all immatures (K.O. Bell, Jr).

GYPSY MOTH (Lymantria dispar) - PENNSYLVANIA - District> County= status June 26: SC> York= eggs, first masses reported, and adults on oak. (D.T. Ware). NEW HAMPSHIRE - Area> status July 14-20: Throughout State> males active and females emerged. Carroll County at Red Hill, and Merrimack County at Allentown and Canterbury= males at 3 sites, infestation around latter area increased in size since 1979, feeding damage evident along about 30 km of National Interstate Highway 93 in latter county. (J.F. Burger).

JAPANESE BEETLE (Popillia japonica) - ILLINOIS - District> County= adults week ending July 11: E> Iroquois= first emergence, damage severe to beans and various ornamentals. (A.M. Agnello). KENTUCKY - District> County= adults on corn week ending July 18: Bluegrass> Clark= damage heavy to silks during pollination near Winchester; currently adults: Bluegrass> Bourbon= adults averaged 2+ per ear [early silk] in 1 field. (P.E. Sloderbeck).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - Eradication treatments continued. District> County= status: Southern California> Los Angeles= virgin female (second female for area) trapped in regulated area of Northridge, July 15. First aerial release of sterile flies planned for 259-sq-km area began July 28. (F.M. Philips).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= status on cotton: SW> Yuma= infested bolls 2-14% and C> Pinal= infested blooms 1.7%; adults per pheromone trap per day: C> Maricopa= 1-20, Pinal= 7-33, and SW> Yuma= 16. (C. Mullis et al.).

CORRECTIONS

CPPR 5(25):463 - COMMON CORN SMUT (*Ustilago maydis*) should be COMMON SMUT (*Ustilago maydis*).

CPPR 5(25):473 and 476 - A DIASPIDID SCALE (*Aonidiella aurantii*) should read CALIFORNIA RED SCALE (*Aonidiella aurantii*).

CPPR 5(26):487 - CEREAL SCAB (*Gibberella roseum* f.sp. *cerealis*) should read CEREAL SCAB (*Gibberella* *Fusarium* *roseum* f.sp. *cerealis*).

CPPR 5(26):491 - FEDERAL AND STATE PROGRAMS - DISEASES - "Aecial collections of STEM RUST (*Puccinia graminis*)...." should read "Aecial collections of BLACK STEM RUST (*Puccinia graminis*)...."

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
Mesa 7/16-22			B	4	134	3	8	7									1	1	19
FLORIDA																			
Gainesville 7/17-23			B	1							37	26							2
INDIANA																			
LaGrange 7/15-21			B			10	0			38	0	3						3	
Tippecanoe 7/15-21			B			25	0			1	0	0						3	
Knox 7/17-23			5P						5						10				
Tippecanoe 7/17-23			5P						8						0				
KENTUCKY																			
Hopkinsville 7/16-21			B							17	25								
Lexington 7/16-21			B	17		4				12	2								2
MARYLAND (Counties)																			
Baltimore 7/21-23			B	12		3	1			3									
Caroline 7/17-21			B			6				2	2								
NEBRASKA																			
Aurora 7/17-23			B	408		202	2			2984								6	
Clay Center 7/18-24			B	53		50	8			1057								2	2
TENNESSEE																			
Lake 6/27-7/3			B			55	10			1								7	
Maury 6/27-7/3			B	28				5											
TEXAS																			
College Station 7/8-14			B	2		0	54	0			2			0		0	1		4

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm		

METRIC CONVERSION

1 cm	= 0.393701 in
1 m	= 3.28084 ft = 1.09361 yd
1 km	= 0.621371 mi
1 sq cm	= 0.155000 sq in
1 sq m	= 10.7639 sq ft = 1.19599 sq yd
1 ha	= 2.47104 acres
1 sq km	= 0.386101 sq mi
1 kg	= 2.20462 lb
1 t (metric ton)	= 1.10231 short ton
1 kg/ha	= 0.892183 lb/acre
1 t/ha	= 0.446091 ton/acre

UNITED STATES DEPARTMENT OF AGRICULTURE
Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

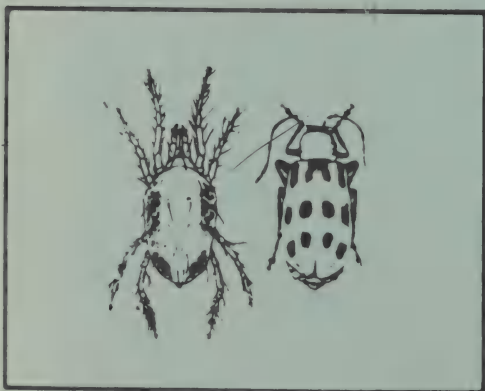
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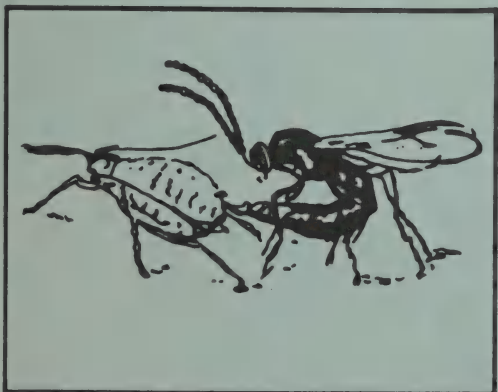
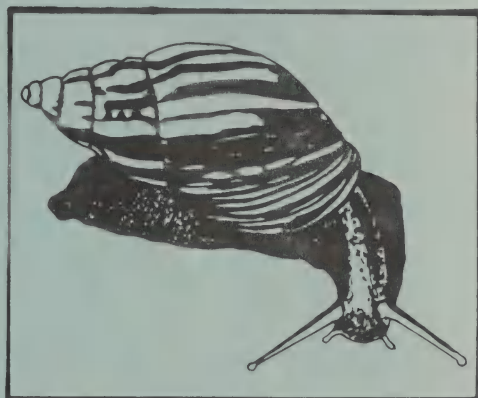
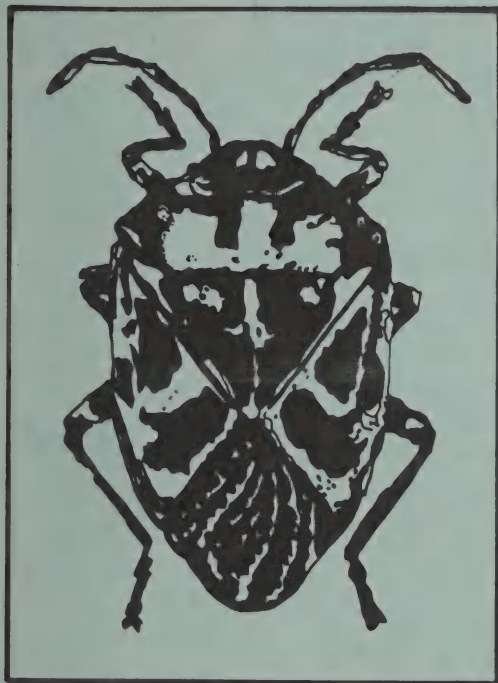
Cooperative Plant Pest Report

August 8, 1980

Vol. 5

No. 28

PROCURE NEW SECTION
CURRENT RECORDS



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

CORN EARWORM problem continued on soybeans in Arkansas. (p. 531).

Significant GYPSY MOTH defoliation in southern New Hampshire. (p. 533).

Detection

For new county records see page 534.

Some First Occurrences of the Season

SOOTY STRIPE on sorghum and GOSS'S WILT on corn in Kansas.

Reports in this issue are for the week ending July 25 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON SMUT (*Ustilago maydis*) - KANSAS - District> County= prevalence on corn week ending July 25: SW> Haskell, Grant, Stanton, Gray, and Finney= trace. (T. Sim, IV). INDIANA - Survey on corn, 1 field each, July 13-19 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Madison	not seen	tassel
C> Bartholomew	trace	silk
SC> Jackson	not seen	midwhorl
EC> Henry	not seen	late whorl
EC> Wayne	not seen	late whorl
SE> Franklin	not seen	late whorl
SE> Dearborn	not seen	late whorl
SE> Ohio	not seen	midwhorl
SE> Switzerland	not seen	late whorl
SE> Jefferson	not seen	midwhorl
SE> Clark	not seen	tassel
SE> Scott	not seen	late whorl
SE> Jennings	trace	late whorl

COMMON MAIZE RUST (*Puccinia sorghi*) - KANSAS - Survey on corn [tassel] week ending July 25 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>
SW> Haskell	trace to 5	trace
SW> Gray	trace to 10	trace
SW> Finney	trace	trace

NEBRASKA - First common maize rust of season. District> prevalence/severity of uredial stage on corn [tassel to silk] week of July 21: E, SE, and SC> trace to 10%/trace. (S. Poe). INDIANA - Survey on corn leaves, 1 field each, July 13-19 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
C> Madison	8	trace	tassel
C> Bartholomew	1	trace	silk
EC> Henry	8	trace	late whorl
EC> Wayne	2	trace	late whorl
SE> Franklin	1	trace	late whorl
SE> Dearborn	5	trace	late whorl
SE> Ohio	not seen	not seen	midwhorl
SE> Switzerland	5	trace	late whorl
SE> Jefferson	not seen	not seen	midwhorl
SE> Clark	1	trace	tassel
SE> Scott	trace	trace	late whorl
SE> Jennings	trace	trace	late whorl
SC> Jackson	trace	trace	midwhorl

SOOTY STRIPE (*Ramulispora sorghi*) - KANSAS - First of season on sorghum week ending July 25. (T. Sim, IV).

SOUTHERN LEAF BLIGHT (*Cochliobolus* (*Bipolaris*) *heterostrophus*) - INDIANA - *Bipolaris maydis* stage on corn leaves, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen	not seen	tassel
C> Bartholomew	not seen	not seen	silk
EC> Henry	not seen	not seen	late whorl
EC> Wayne	not seen	not seen	late whorl
SE> Franklin	not seen	not seen	late whorl
SE> Dearborn	not seen	not seen	late whorl
SE> Ohio	not seen	not seen	midwhorl
SE> Switzerland	80	2	late whorl
SE> Jefferson	not seen	not seen	midwhorl
SE> Clark	10	1	tassel
SE> Scott	trace	trace	late whorl
SE> Jennings	not seen	not seen	late whorl
SC> Jackson	not seen	not seen	midwhorl

ANTHRACNOSE LEAF BLIGHT (*Colletotrichum graminicola*) - INDIANA - Survey on corn leaves, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen	not seen	tassel
C> Bartholomew	not seen	not seen	silk
EC> Henry	not seen	not seen	late whorl
EC> Wayne	not seen	not seen	late whorl
SE> Franklin	trace	trace	late whorl
SE> Dearborn	not seen	not seen	late whorl
SE> Ohio	not seen	not seen	midwhorl
SE> Switzerland	not seen	not seen	late whorl
SE> Jefferson	not seen	not seen	midwhorl
SE> Clark	10	1	tassel
SE> Scott	not seen	not seen	late whorl
SE> Jennings	not seen	not seen	late whorl
SC> Jackson	not seen	not seen	midwhorl

CORN EYESPOT (*Kabatiella zeae*) - INDIANA - District> County= prevalence/severity on corn July 13-19: EC> Wayne= 4%/trace in 1 of 13 sites. (R.A. Schall).

CORN BROWN SPOT (*Physoderma maydis*) - INDIANA - Survey on corn, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen	not seen	tassel
C> Bartholomew	not seen	not seen	silk
EC> Henry	not seen	not seen	late whorl
EC> Wayne	not seen	not seen	late whorl
SE> Franklin	not seen	not seen	late whorl
SE> Dearborn	not seen	not seen	late whorl
SE> Ohio	not seen	not seen	midwhorl
SE> Switzerland	not seen	not seen	late whorl
SE> Jefferson	not seen	not seen	midwhorl
SE> Clark	not seen	not seen	tassel

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
SE> Scott	not seen	not seen	late whorl
SE> Jennings	trace	trace	late whorl
SC> Jackson	not seen	not seen	midwhorl

STEWART'S WILT (*Erwinia stewartii*) - INDIANA - Survey on corn leaves, 1 field each, July 13-19 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
C> Madison	not seen	not seen	tassel
C> Bartholomew	not seen	not seen	silk
EC> Henry	not seen	not seen	late whorl
EC> Wayne	not seen	not seen	late whorl
SE> Franklin	not seen	not seen	late whorl
SE> Dearborn	not seen	not seen	late whorl
SE> Ohio	not seen	not seen	midwhorl
SE> Switzerland	not seen	not seen	late whorl
SE> Jefferson	not seen	not seen	midwhorl
SE> Clark	trace	trace	tassel
SE> Scott	10	1	late whorl
SE> Jennings	not seen	not seen	late whorl
SC> Jackson	4	trace	midwhorl

GOSS'S WILT (*Corynebacterium nebraskense*) - KANSAS - First of season. District> County= prevalence on corn week ending July 25: NW> Sherman= 1% in 1 field. Field damaged by hail earlier in season. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence on corn week ending July 25: SW> Haskell= trace in 1 field. Seems much less prevalent in southwestern area than in central and eastern areas. (T. Sim, IV). INDIANA - Survey on corn, 1 field each, July 13-19 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Madison	not seen	tassel
C> Bartholomew	not seen	silk
EC> Henry	not seen	late whorl
EC> Wayne	not seen	late whorl
SE> Franklin	not seen	late whorl
SE> Dearborn	3	late whorl
SE> Ohio	not seen	midwhorl
SE> Switzerland	not seen	late whorl
SE> Jefferson	not seen	midwhorl
SE> Clark	not seen	tassel
SE> Scott	not seen	late whorl
SE> Jennings	trace	late whorl
SC> Jackson	not seen	midwhorl

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NEBRASKA - District> County= status on corn: E> Merrick, Nance, Hamilton, and C> Howard= second generation egg

masses in 30 of 60 fields, European corn borer infestations up to 14%, egg masses on average of 3.5% of plants; C> Hall, Buffalo, and S> Kearney= egg masses on up to 8% of plants in 8 of 92 fields or an average of less than 1% in 92 fields July 18-23. (Monke). SE> Fillmore= egg masses 0-24%, averaged 6% of plants in 10 corn [6-88% silk] fields, E> Butler= second brood egg masses began to show up, and SW> Dundy= mostly 5th instars July 18-23. (Raun). NE> Wayne= first second generation egg mass July 22. (Jarvi). OHIO - Larvae, pupae, and damaged stalks on field corn (* indicates sweet corn) July 21-23. An † indicates corn planted in 1979's stalks. (R. Wadleigh).

District> County	Larval length (cm)	Larvae per stalk	Pupae per stalk	Damaged stalks (%)	Host stage
C> Morrow	1.5	0.05	0	10	tassel
C> Morrow	1.5	0.04	0	12	tassel
C> Knox	1.5	0.02	0	13	late whorl
C> Knox	2	0.05	0	10	maturity
NC> Ashland*†	1-2.5	0.22	0	10	tassel
NE> Portage*	1-2	0.03	0	17	maturity
NE> Portage*	-	0	0.03	3	maturity
NE> Portage	2	0.01	0	5	tassel

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - TEXAS - Counts on corn July 11-18 (P.W. Treptow, III et al.):

District> County	Counts per trap
Northern High Plains> Hale at Edmonson and Kress	16-20 per week
Northern High Plains> Hale at Cotton Center	305 per week
Northern High Plains> Parmer at Farwell	200+ per night

ARMYWORM (*Pseudaletia unipuncta*) - OHIO - District> County= status on field corn [early whorl] July 21: NC> Ashland= infestation severe, damage complete, 54 of 100 plants reduced to leafless stubs [8 cm tall], 1.1 larvae [0.5-3 cm long] severely defoliated each remaining plant. (R. Wadleigh).

CORN EARWORM (*Heliothis zea*) - TEXAS - District> County= larvae per sorghum head July 15-16: Southern Low Plains> Runnels and Edwards Plateau> Tom Green= 4-5 in some fields and 5-6 in San Angelo area in latter county. (A.A. Armstrong et al.). ALABAMA - Area> larvae (average) per 25 corn [maturing] plants in number of fields (f) July 28: Sand Mountain> 3rd instar 1-3 (2) in 4f (W.A. Smith), Tennessee River> 4th instar 3-6 (4.6) in 5f (J.E. Gregory), and Coastal Plains> 4th instar 2-12 (7) in 2f (T. Lemons). NORTH CAROLINA - Area> status on corn week ending July 25: Southern Coastal Plain> larvae fully grown in 85% of fields, and southern one-half of State> larvae rapidly moved from ears into soil. (T. Hunt).

STALK BORER (*Papaipema nebris*) - OHIO - Larvae (3.5 cm long) infested edge rows in 3 corn fields. District> County= larvae on corn [host stage] July 21-23: C> Morrow= trace on field corn [tassel], NE> Portage= 0.13 per stalk on sweet corn [tassel], and C> Knox= 0.05 per stalk in field corn [late whorl]. (R. Wadleigh).

WESTERN CORN ROOTWORM (*Diabrotica virgifera*) - NEBRASKA - District> County= counts (averages) of this species and NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) on corn in number of fields (f): NE> Cedar= 0.02-4.3 (2.22) per plant in 8f, averaged 1+ per plant in 6 of 8f; Wayne and Cedar= 0.04-2.0 (0.98) per ear zone in 9f, averaged 0.5+ per ear zone in 6 of 9f July 22 (Jarvi); SE> Fillmore= 0.02-0.24 per ear zone (no data) in 10f July 18-23 (Raun); C> Howard, E> Merrick, Nance, and Hamilton= 0-3.3 (0.76) per ear zone in 106f; and C> Hall, Buffalo, and S> Kearney= adults 0-2 (0.67) per ear zone in 92f. (Monke). OHIO - District> County= status on field corn [tassel] July 21: C> Morrow= adults 0.01 per stalk (R. Wadleigh) and NE area> in general, adults heavier than this time last year. (S. Clement).

CORN LEAF APHID (*Rhopalosiphum maidis*) - OHIO - District> County= counts on corn week ending July 25: C> Morrow, NC> Ashland, NE> Portage, and C> Knox= from 20-30 per plant clustered on leaves and tassels to hundreds completely covering infested surface. Most severe on corn in tassel stage, found mostly on emerging tassels. (R. Wadleigh).

GREENBUG (*Schizaphis graminum*) - NEBRASKA - District> County= Counts on sorghum: SE> Clay= 0-150 (averaged 25) per plant on untreated resistant sorghum and 0-1,000+ (averaged 150) per plant on untreated susceptible sorghum in plots at South Central Station, lower leaves of more heavily infested susceptible plants discolored July 23 (Peters); E> Saunders= averaged 319 per plant on untreated plants and 3 per plant on treated portion of resistant sorghum [bloom] in 2 fields July 18-23 (Raun); York= averaged 55 per plant, 4% parasitized by *Lysiphlebus testaceipes* (an aphidiid wasp) in 1 sorghum [boot] field; and C> Hall= averaged 194 per forage sorghum [9 leaves] plant, feeding damage consisted of slight discoloration of lower leaves, no parasitism seen (Monke).

SMALL GRAINS

INSECTS

HESSIAN FLY (*Mayetiola destructor*) - WASHINGTON - District> County= status July 22: EC> Franklin= puparia on irrigated wheat, damage extensive, north of Pasco. (O. Maloy et al.).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Appeared to be only active disease on alfalfa in southwestern area week ending July 25. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
SW> Seward	trace	0	30
SW> Haskell	trace to 100	0-1	51-66
SW> Grant	trace	0	66
SW> Hamilton	trace	0	30
SW> Gray	not seen	not seen	-

INSECTS

PEA APHID (*Acyrtosiphon pisum*) - UTAH - District> County= counts per 25 sweeps of forage legumes week of July 24: C> Millard= heaviest in Sugarville area, 25,000 in 1 badly damaged field (D.W. Davis), counts increased and control needed at Sutherland. (N. Okunda).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - UTAH - District> County= counts per 25 sweeps of forage legumes week of July 24: C> Millard= 5,000 in 1 badly damaged field, heaviest in Sugarville area (D.W. Davis), increased past week in alfalfa seed field, controls required at Abraham, Sutherland, and Sugarville. (N. Okunda).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*) - INDIANA - Survey on soybeans, 1 field each, July 13-19 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Madison	trace	1 open flower at any node on main stem
C> Bartholomew	not seen	8 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
EC> Henry	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Wayne	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Union	not seen	1 open flower at any node on main stem
SE> Switzerland	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jefferson	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Clark	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SE> Scott	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jennings	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SC> Jackson	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

CHARCOAL ROT (*Macrophomina phaseolina*) - KANSAS - First of season on soybeans week ending July 25. (T. Sim, IV).

SOYBEAN BROWN SPOT (*Septoria glycines*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar in 1 monitoring plot each, July 14-26: E> Champaign= 50%/1% [pods 0.5 cm] on 'Amsoy,' SE> Pope= 100%/5% [pods 2 cm] on 'Amsoy 71,' SW> Jackson= 60%/1% [pods 2 cm] on 'Beeson,' St. Clair= 40%/1% [flowering] on 'Union,' ESE> Fayette= 100%/4% [pods 0.5 cm] on 'Kent,' NE> De Kalb= 50%/1% [11 nodes] on 'Franklin,' NW> Putnam= 20%/trace [pods 0.5 cm] on 'Wells,' W> McDonough= 100%/3% [pods 2 cm] on 'Corsoy,' and C> Logan= 70%/1% [flowering] on 'Elf.' (E.G. Jordan, M. Besant). INDIANA - Survey on soybeans, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	5	trace	1 open flower at any node on main stem
C> Bartholomew	trace	trace	8 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
EC> Henry	50	2	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Wayne	90	8	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Union	10	trace	1 open flower at any node on main stem
SE> Switzerland	80	7	5 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jefferson	95	17	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Clark	10	5	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SE> Scott	60	10	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jennings	80	5	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SC> Jackson	60	5	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

PHYLLOSTICTA LEAF SPOT (*Phyllosticta sojaecola*) - INDIANA - Survey on soybean leaves, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen	not seen	1 open flower at any node on main stem
C> Bartholomew	trace	trace	8 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
EC> Henry	trace	1	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

District> County	Prevalence (%)	Severity (%)	Host stage
EC> Wayne	trace	trace	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Union	not seen	not seen	1 open flower at any node on main stem
SE> Switzerland	not seen	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SE> Jefferson	not seen	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SE> Clark	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SE> Scott	not seen	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SE> Jennings	trace	trace	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SC> Jackson	1	1	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar in 1 monitoring plot each, July 14-26: E> Champaign= trace/trace [pods 0.5 cm] on 'Amsoy 71,' SE> Pope= 80%/1% [pods 0.5 cm] on 'Elf,' SW> St. Clair= trace/trace [flowering] on 'Clark,' ESE> Fayette= trace/trace [pods 0.5 cm] on 'Franklin,' and W> McDonough= trace/trace [pods 0.5 cm] on 'Woodworth.' (E.G. Jordan, M. Besant). INDIANA - Survey on soybeans, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen	not seen	1 open flower at any node on main stem
C> Bartholomew	not seen	not seen	8 nodes on main stem with fully developed leaves beginning with unifoliate nodes
EC> Henry	trace	trace	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Wayne	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Union	not seen	not seen	1 open flower at any node on main stem
SE> Switzerland	not seen	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SE> Jefferson	not seen	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliate nodes

District> County	Prevalence (%)	Severity (%)	Host stage
SE> Clark	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SE> Scott	not seen	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jennings	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SC> Jackson	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar in 1 monitoring plot each, July 14-26: E> Champaign= 50%/1% [flowering] on 'Williams,' SE> Pope= trace/trace [flowering] on 'Woodworth,' SW> Jackson= 60%/1% [pods 0.5 cm] on 'Clark,' St. Clair= trace/trace [flowering] on 'Cutler 71,' ESE> Fayette= 100%/3% [pods 0.5 cm] on 'Clark 63,' NE> De Kalb= 100%/6% [flowering] on 'Amsoy,' NW> Putnam= 100%/2% [pods 2 cm] on 'Beeson,' W> McDonough= 80%/2% [pods 2 cm] on 'Corsoy,' and C> Logan= 100%/5% [flowering] on 'Amsoy 71.' (E.G. Jordan, M. Besant). INDIANA - On soybean leaves, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	5	1	1 open flower at any node on main stem
C> Bartholomew	not seen	not seen	8 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
EC> Henry	90	8	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Wayne	60	5	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Union	60	3	1 open flower at any node on main stem
SE> Switzerland	not seen	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jefferson	not seen	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Clark	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SE> Scott	not seen	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jennings	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SC> Jackson	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

BACTERIAL PUSTULE (*Xanthomonas phaseoli* f.sp. *sojensis*) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] Leaves on cultivar in 1 monitoring plot each, July 14-26: E> Champaign= trace/trace [flowering] on 'Clark,' SE> Pope= trace/trace [pods 2 cm] on 'Wells,' SW> Jackson= 50%/1% [pods 0.5 cm] on 'Cutler 71,' St. Clair= trace/trace [flowering] on 'Cutler 71,' ESE> Fayette= 60%/1% [seed development] on 'Corsoy,' NE> De Kalb= trace/trace [flowering] on 'Amsoy,' NW> Putnam= 30%/1% [pods 2 cm] on 'Corsoy,' W> McDonough= 40%/1% [pods 2 cm] on 'Amsoy 71,' and C> Logan= 50%/1% [flowering] on 'Beeson.' (E.G. Jordan, M. Besant).

SOYBEAN MOSAIC VIRUS - ILLINOIS - District> County= prevalence on soybean [host stage] cultivars in 1 monitoring plot each, July 14-26: E> Champaign= trace [pods 0.5 cm] on 'Wells,' SE> Pope= trace [flowering] on 'Union,' SW> Jackson= trace [pods 0.5 cm] on 'Franklin,' St. Clair= trace [12 nodes] on 'Essex,' ESE> Fayette= trace [pods 0.5 cm] on 'Woodworth,' NE> De Kalb= trace [flowering] on 'Beeson,' and W> McDonough= trace [pods 2 cm] on 'Corsoy.' (E.G. Jordan, M. Besant). INDIANA - Survey on soybeans, 1 field each, July 13-19 (R.A. Schall):

District> County	Prevalence (%)	Host stage
C> Madison	trace	1 open flower at any node on main stem
C> Bartholomew	not seen	8 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
EC> Henry	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Wayne	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
EC> Union	not seen	1 open flower at any node on main stem
SE> Switzerland	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jefferson	trace	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Clark	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SE> Scott	not seen	6 nodes on main stem with fully developed leaves beginning with unifoliolate nodes
SE> Jennings	trace	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed
SC> Jackson	not seen	open flower at 1 of 2 uppermost nodes on main stem with leaf fully developed

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - VIRGINIA - District> County= larval and adult averages per 25 sweeps of soybeans in trap plots, full season cropping, and double cropping soybeans, respectively, July 24-25: E> Westmoreland= 0.0 and 0.3, 0.01 and 3.4, and 0.0 and 0.6; and Richmond= 0.5 and 2.4, 0.6 and 0.7, and 0.0 and 0.0. (R.M. McPherson).

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - ALABAMA - Area> counts (average) per 4.6 row m of soybean [host stage] plants in number of fields (f) July 28: Coastal Plains> 2nd to 3rd instar larvae 4-11 (7.5) [bloom] in 4f (T. Lemons), Wiregrass> adults 1 (1) [midbloom] in 1f (W.N. Stephenson), Central Alabama> adults 2-11 (6) [bloom] in 4f (C. Knox, N. Wilson), Black Belt> adults 1-15 (4.4) [bloom] in 5f (T.I. Pigott, G. Walker), and Sand Mountain> adults 1-3 (2.3) [bloom to pod] in 6f (W.A. Smith).

WHITEFRINGED BEETLES (*Graphognathus* spp.) - ALABAMA - Area> adults (average) per 4.6 row m of soybeans [host stage] plants in number of fields (f) July 28: Gulf Coast> 1-4 (2.6) [bloom] in 5f (L.W. Lockhart), Coastal Plains> 1-2 (1.3) [bloom] in 3f (T. Lemons), Wiregrass> 1-5 (1.9) [early to midbloom] in 7f (W.N. Stephenson), Black Belt> 2 (2) [bloom] in 1f (T.I. Pigott, G. Walker), and Sand Mountain> 1-3 (2) [bloom] in 2f. (W.A. Smith).

CORN EARWORM (*Heliothis zea*) - ARKANSAS - Area> status on soybeans week ending July 25: Statewide> infestations continued to cause heavy foliage and terminal damage to young plants, larvae up to 6 per 0.3 row m. Adults emerged in heavy numbers from some older fields previously infested with larvae. (G. Barnes). SOUTH CAROLINA - District> County= status on soybeans: S> Jasper and C> Sumter= general movement into soybeans began about July 18. Small larvae seen feeding on blooms week ending July 25. (J.W. Chapin).

SOYBEAN LOOPER (*Pseudoplusia includens*) - ALABAMA - Area> larvae (average) per 4.6 row m of soybean [bloom] plants in number of fields (f) July 28: Gulf Coast> 4th instar 1 (1) in 1f (L.W. Lockhart), Coastal Plains> 4th instar 1-5 (2) in 4f (T. Lemons), Tennessee River> 4th instar 1 (1) in 1f (J.E. Gregory), and Sand Mountain> 2nd instar 2 (2) in 1f. (W.A. Smith).

GREEN CLOVERWORM (*Plathypena scabra*) - ALABAMA - Area> larvae (average) per 4.6 row m of soybean [host stage] plants in number of fields (f) July 28: Gulf Coast> 2nd to 3rd instars 1-9 (3.4) [bloom] in 5f (L.W. Lockhart), Coastal Plains> 4th instar 1 (1) [bloom] in 1f (T. Lemons), Wiregrass> 2nd instar 3 (3) [midbloom] in 4f (W.N. Stephenson), Black Belt> 1st to 3rd instars 1-4 (2.8) [bloom] in 5f (T.I. Pigott, G. Walker), Tennessee River> 3rd to 4th instars 1-3 (2.3) [bloom] in 4f (J.E. Gregory), and Sand Mountain> 2nd to 3rd instars 1-5 (2.7) [bloom to pod] in 3f (W.A. Smith).

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - VIRGINIA - District> County= sporadic outbreaks in soybeans July 29: E> Westmoreland and SE> Southampton= spot treatments needed. (E. Wrenn).

PEANUTS

INSECTS

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - SOUTH CAROLINA - District> County= status on peanuts July 18: NC> Kershaw, C> Lee, Sumter, and S> Barnwell= damage significant in up to 50% of sites checked. (J.W. Chapin).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - SOUTH CAROLINA - Damage (9-20%) continued in many fields throughout cotton-producing area July 18-23. (D.G. Manley, D.R. Johnson).

BOLLWORMS (*Heliothis* spp.) - TENNESSEE - District> County= BOLLWORM (*Heliothis zea*) status on cotton week ending July 25: Central Basin> Lincoln and Cumberland Plateau> Franklin= square damage 4-14%, heavier in fields treated earlier in year, and W area> below treatment levels, eggs and larvae 0-3 per 100 terminals. (M.E. Cooper). SOUTH CAROLINA - District> County= *Heliothis* spp. status on cotton: E> Dillon and C> Lee= trap counts and sightings of adults increased July 18 (D.G. Manley), and Savannah Valley area> eggs increased, up to 100 per 100 plants in some fields, adults averaged 90-100 per night in light traps. TOBACCO BUDWORM (*Heliothis virescens*) adults averaged 30-40 per night in pheromone traps July 23. (D.R. Johnson).

NORTH CAROLINA - District> County= *Heliothis zea* status on cotton: Southern Coastal> Scotland and Robeson= eggs began to appear, scouting and preparation for treatment should be underway in all cotton-producing counties. Adult emergence expected to rapidly continue July 25-31. (Bacheler).

COTTON FLEAHOPPER (*Pseudatomoscelis seriatus*) - TEXAS - Populations heavy in north-central area and generally light in other areas of State. (J.A. Jackman). Counts on cotton July 11-18 (G.C. Moore et al.):

District> County	Counts per 100 terminals
Blacklands> Ellis & Navarro	30
Blacklands> Collin & Hunt	14-75
Cross Timbers> Clay	0-4%
Northern Low Plains> Wilbarger	10
Southern High Plains> Crosby &	
Northern High Plains> Floyd	up to 22
Southern High Plains> Glasscock	5-35
Southern Low Plains> Mitchell	0-3
Southern Low Plains> Scurry	0-2
Far western area	0-5 in most areas
Edwards Plateau> Upton	5-35

GREEN STINK BUG (*Acrosternum hilare*) - SOUTH CAROLINA - District> County= status on cotton: C> Sumter= damage heavy due to feeding by nymphs and adults on bolls in 1 field, about 25% of bolls damaged; control recommendations made July 23. (D.R. Johnson). C> Sumter and S> Barnwell= damaged large bolls, controls recommended July 21. (J.W. Chapin).

FOREST AND SHADE TREES

INSECTS

A CERAMBYCID BEETLE (*Monochamus titillator*) - IOWA - New county record. District> County= collection data from *Pinus strobus* (eastern white pine): SE> Lee= near Farmington, February 27, 1980, collected and determined by D. Williams, confirmed by C.R. Stoltenow. (D.J. Williams).

A WEEVIL (*Dryophthorus americanus*) - IOWA - New county record. District> County= collection data from *Pinus strobus* (eastern white pine): SE> Lee= near Farmington, April 25, 1980, collected by W. Fullbrugge, determined by C.R. Stoltenow and D.J. Williams, confirmed by D.R. Whitehead. (D.J. Williams).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

AN ERIOPHYID MITE (*Eriophyes chondrillae*) - WASHINGTON - District> County= status on *Chondrilla juncea* (rush skeletonweed) week of June 30: NE> Spokane= releases in 1979 successfully overwintered and established at site in southern area. Numerous galls evident. (G. Piper).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - OREGON - County= status of mainly *Melanoplus* spp.: Wasco= cooperative rangeland control program completed July 20, total of 9,368.5 ha treated, population reduced to 2 or fewer per 0.8 sq m; Malheur= treatments completed on 173,206 of about 190,000 ha; Union= 1,416 of 5,058.6 ha treated; and Klamath= about 9,300 ha scheduled to begin treatment August 1. (F.P. Larson). NEW MEXICO - District> County= status of grasshoppers and RANGE CATERPILLAR (*Hemileuca oliviae*) week ending July 25: NE> Union, Harding, Mora, and Colfax= controls applied to 46,539 ha. (J. Banfill). TEXAS - Area> grasshopper status on rangeland July 18: South Plains> problem in some areas. (J.F. Leser).

NEBRASKA - District> County= status of *Melanoplus differentialis* and *Melanoplus bivittatus* on corn: S> Phelps= adults mostly, averaged 20 per 0.8 sq m in field margins, moved into border 5 rows; SC area> economic infestations scattered throughout area in roadside ditches and field margins, vegetation in ditches holding up fairly well, and migration into fields minimal July 23 (Peters); NW> Scotts Bluff and Morrill= mainly 4th and 5th instars of these species and of *Melanoplus sanguinipes* adults averaged 17.5 per 0.8 sq m in road side ditches, railroad right-of-way, and field margins and 30 per 0.8 sq m in borrow pits. Vegetation in ditches drying up and grasshoppers moved into border 6 rows of corn in some areas, second alfalfa cutting taken, and grasshoppers may move from alfalfa into adjacent row crops (Hagen).

GYPSY MOTH (*Lymantria dispar*) - NEW HAMPSHIRE - Significant defoliation continued to increase throughout southern two-thirds area. County= areas of significant defoliation July 7-13: Merrimack= several hundred hectares totally defoliated east of Manchester on National Interstate Highway 93 by-pass; Grafton= several hundred hectares severely defoliated near Ashland along National Interstate Highway 93; and Carroll= 32-48 km north and south of Conway, infestation along Redstone Ledge at Conway spread west and south into low-lying areas and several hundred hectares partially defoliated, wilt evident but population seems not yet under control, about 25% of population in pupal stage. (J.F. Burger).

HAWAII PEST REPORT

Snail Pest - BROWN GARDEN SNAIL (*Helix aspersa*) - Snail activity increased in areas overgrown with lush weeds and ornamentals due to extended wet weather at Waimea, Hawaii Island, during June 1980. Total of 1,667 live snails and 7 dead/empty shells recovered during June. Majority of snails recovered from areas once cleared of vegetation and now overgrown with weeds. (R.S. Kami).

DETECTION

NEW COUNTY RECORDS

INSECTS

A CERAMBYCID BEETLE (*Monochamus titillator*) - IOWA - Lee. (p. 532).

A CURCULIONID BEETLE (*Dryophthorus americanus*) - IOWA - Lee. (p. 533).

CORRECTIONS

CPPR 5(26):485 - OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) - Change *Frangula alnus* (buckthorn) to *Rhamnus* sp. (a buckthorn).

CPPR 5(27):505 - OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) - Change *Frangula* spp. (buckthorn) to *Rhamnus* sp. (a buckthorn).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
INDIANA																			
		B				10	0		2	74	0	0		0				3	1
	La Grange 7/28	5P																	
	Tippecanoe 7/30																		
KENTUCKY																			
	Lexington 7/22-30	B		60		4	1			25	5				1				20
MARYLAND (County)																			
	Caroline 7/23-24	B		4		7	3			1					2				1
NEW JERSEY																			
	Allentown 7/16	B		21		8				30								2	
	Vineland 7/16	B		31	2	17	4			11	1				2			3	3
NORTH DAKOTA																			
	Bismarck 7/16-30	B		10						25									
	Bottineau 7/18-29	B		56	9				4										
OHIO (Counties)																			
	Putnam 7/28	B		0				0	0		0				0	0		0	0
	Wayne 7/24-30	2B		94				0	1	3	0				0	0		27	0
VIRGINIA																			
	Painter 7/20-26	B		88		32	19	41		16	60				6	2		11	23
	Warsaw 7/22-28	B					36			165									
WISCONSIN																			
	Mazomanie 7/23-30	B		2		4				82								0	
	Racine 7/22-28	B		3		1				55								1	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellow-striped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	TXB	Tobacco Budworm		

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Hyattsville, Maryland 20782

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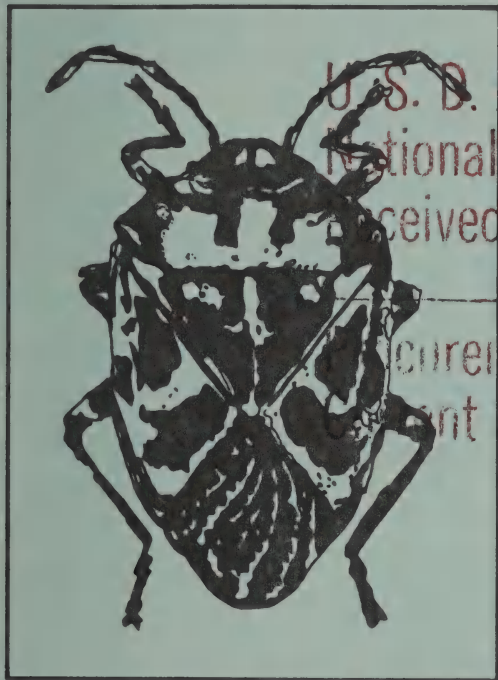
Plant Protection
and Quarantine

Cooperative Plant Pest Report

August 15, 1980

Vol. 5

No. 29



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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

LOOSE SMUT decreased sharply on barley in almost all counties surveyed in Minnesota. (p. 540).

Sharp decrease of WHEAT STEM RUST collections on wheat and absence of race 15-TNM in 1980 could have considerable impact on population of this rust in United States in 1981. (p. 546).

Detection

● A LEAFHOPPER in Connecticut is new for the United States. (p. 547).

A WEEVIL is new for Massachusetts. (p. 540).

For new county records see page 547.

Reports in this issue are for the week ending August 8 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus* (*Bipolaris*) *carbonum*) - ILLINOIS - District> County= *Bipolaris zicola* prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 28: NW> Lee= 70%/1% [blister], NE> La Salle= 20%/trace [blister], E> Livingston= 40%/trace [dough], Ford= trace/trace [blister], C> Marshall= trace/trace [dough], Woodford= trace/trace [dough], and McLean= trace/trace [blister]. (E.G. Jordan).

COMMON SMUT (*Ustilago maydis*) - KANSAS - Survey on corn (T. Sim, IV):

District> County	Prevalence (%)	Host stage
NE> Nemaha	trace	soft dough
NE> Brown	trace	milk to soft dough
NE> Doniphan	trace	soft dough
NC> Clay	trace	soft dough
NC> Cloud	trace	soft dough

NEBRASKA - District> common smut prevalence on corn [silk to blister]: NE, E, SE, C, SC, and SW> usually not more than trace in nonirrigated fields and trace to 2% in irrigated fields. (S. Poe). ILLINOIS - District> County= prevalence on corn [host stage] in 1 commercial field each, week of July 28: NW> Lee= 1% [blister], NE> La Salle= trace [blister], E> Livingston= trace [dough], Ford= 1% [blister], C> Marshall= 2% [dough], Woodford= trace [dough], and McLean= 3% [blister]. (E.G. Jordan).

INDIANA - Common smut on corn, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	trace	dough
NW> White	not seen	blister
NW> Jasper	trace	blister
NW> Porter	trace	dough
NW> La Porte	trace	blister
NC> St. Joseph	not seen	silk
NC> Marshall	trace	blister
NC> Fulton	not seen	silk
NC> Cass	not seen	dough
NC> Carroll	trace	blister
C> Howard	trace	blister
C> Clinton	not seen	silk

COMMON MAIZE RUST (*Puccinia sorghi*) - NEBRASKA - District> prevalence/severity on corn [silk to blister]: NE, E, SE, C, SC, and SW> trace to 40%/usually not more than trace, wide variation between fields in any local area. (S. Poe). ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 28: NW> Lee= 100%/1% [blister], NE> La Salle= 100%/2% [blister], E> Livingston= 100%/2% [dough], Ford= 80%/trace [blister], C> Marshall= 90%/trace [dough], Woodford= 100%/1% [dough], and McLean= 100%/3% [blister]. (E.G. Jordan).

INDIANA - Common maize rust on corn leaves, 1 field each, July 27 to August 2 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Tippecanoe	5	trace	dough
NW> White	90	trace	blister
NW> Jasper	54	trace	blister
NW> Porter	52	trace	dough
NW> La Porte	90	trace	blister
NC> St. Joseph	70	trace	silk
NC> Marshall	75	trace	blister
NC> Fulton	40	trace	silk
NC> Cass	40	trace	dough
NC> Carroll	84	trace	blister
C> Howard	78	trace	blister
C> Clinton	37	trace	silk

CHARCOAL ROT (*Macrophomina phaseolina*) - KANSAS - District> County= prevalence on popcorn [hard dough]: NE> Jefferson= 1% of plants in 1 field, 60% of infected plants lodged. (T. Sim, IV).

A FUSARIUM STALK ROT (*Fusarium* sp.) - KANSAS - District> County= prevalence on sorghum [soft dough]: NE> Nemaha= trace in 1 field. (T. Sim, IV).

ANTHRACNOSE LEAF BLIGHT (*Colletotrichum graminicola*) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 28: NW> Lee= trace/trace [blister], NE> La Salle= trace/trace [blister], E> Livingston= 50%/trace [dough], Ford= 10%/trace [blister], C> Marshall= 30%/trace [dough], Woodford= 20%/trace [dough], and McLean= trace/trace [blister]. (E.G. Jordan). INDIANA - Survey on corn leaves, 1 field each, July 27 to August 2 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
WC> Tippecanoe	not seen	not seen	dough
NW> White	not seen	not seen	blister
NW> Jasper	not seen	not seen	blister
NW> Porter	not seen	not seen	dough
NW> La Porte	not seen	not seen	blister
NC> St. Joseph	not seen	not seen	silk
NC> Marshall	not seen	not seen	blister
NC> Fulton	not seen	not seen	silk
NC> Cass	not seen	not seen	dough
NC> Carroll	not seen	not seen	blister
C> Howard	not seen	not seen	blister
C> Clinton	trace	1	silk

SOOTY STRIPE (*Ramulispora sorghi*) - KANSAS - District> County= prevalence on sorghum [soft dough]: NE> Doniphan and Atchison= trace in 1 field each. (T. Sim, IV).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - District> County= prevalence on sorghum [beginning to flower]: NC> Republic= trace in 1 field. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence [host stage] in 1 field each: NE> Jefferson= 1% on popcorn [soft dough] and EC> Shawnee= red leaf trace on sorghum [head]. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - MINNESOTA - Heat units accumulated faster for second brood adults (953.3 units, base 10°C), especially in south-east district and northwest part of south-central district, July 20. District> main pest stage on field corn from 119 fields in 24 counties, number of borers per 100 plants [average host height], and number of infested plants per 100: WC> 3rd, 12 [201 cm], and 8; SW> 3rd and pupa, 1.5 [188 cm] and 3; SC> 4th and pupa, 1.2 [198 cm], and 5; SE> 4th, 5th, and pupa, 50 [229 cm], and 4. (D. McGinnis, V. Mammenga).

ARMYWORM (*Pseudaletia unipuncta*) - MINNESOTA - Localized outbreaks on corn week ending July 25. District> County= status: SW> Nobles= 1-2 per plant in corn field next to pastured grasses, field treated, and SC> Rice= destroyed 16-ha field of canarygrass. (D. Sreenivasam).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - Counts continued to increase throughout Panhandle area. District> County= counts per 0.3 row m of corn: NE> Madison= 26 in 30-ha field. (R.K. Spenkel).

CORN LEAF APHID (*Rhopalosiphum maidis*) - INDIANA - Area> status on corn: State-wide> infested about 25% of fields surveyed in all districts, especially in east-central district; colonies unusually large, more often on upper leaves and lower tassel. (R.W. Meyer). OHIO - Dense populations in 11 corn fields in 6 counties week ending August 1. Aphids usually on tassel and exposed leaves under sheath. District> County= status: NW> Paulding= on unexposed leaves [mid-whorl] rolled up in whorl in field. Winged females averaged 20 per plant with TENSPOTTED LADY BEETLE (*Coelophora pupillata*) on 50% of plants. (R. Wadleigh).

SMALL GRAINS

DISEASES

Heavy WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) severity in some southern wheat nurseries in 1980 favored by mild winter and wet, cool spring after moderate increase in fall 1979. Losses light in commercial fields in this area due to disease resistance, late onset of infection, and rapid crop development. Resistant cultivars and hot, dry conditions in northern soft red winter, hard red spring, and durum areas prevented losses in these areas. (A.P. Roelfs, D. Long).

BARLEY LEAF RUST (*Puccinia hordei*) nearly absent in winter barley area of southern United States in 1980. Lack of southern source of inoculum accounted for scarcity in spring barley area of northern Great Plains. Common in nurseries in Middle Atlantic Coast States. (A.P. Roelfs, D. Long).

RYE LEAF RUST (*Puccinia recondita* f.sp. *secalis*) severity moderate to heavy on rye in United States in 1980. Losses light and localized. (A.P. Roelfs, D. Long).

OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) development on oats throughout southern United States in 1980 light in commercial fields and heavy on susceptible cultivars in nurseries. Generally, severity light on northern commercial oats due to lack of inoculum and unfavorable environmental conditions. Losses occurred in late-maturing fields and fields near buckthorn. (A.P. Roelfs, D. Long).

For STEM RUSTS see page 545.

LOOSE SMUT (*Ustilago nuda*) - MINNESOTA - Decreased in almost all counties surveyed. Field surveys completed July 18 in northwestern and west-central districts. District> County= average prevalence on barley for 1980 (1979 if given) in five 3.0-m rows in 5 fields per county: NW> Becker= 0.0%, Clay= 0.12%, Mahanomen= 0.0%, and Norman= 0.001%, average for district: 0.03% (2.05%); WC> Big Stone= 0.04% (0.94%), Chippewa= 0.0%, Douglas= 0.06% (0.69%), Grant= 0.13% (1.98%), Otter Tail= 0.0% (2.28%), Pope= 0.0% (-), Stevens= 0.14% (0.68%), Swift= 0.07% (-), Traverse= 0.08% (0.46%), and Wilkin= 0.14% (0.08%), average for district: 0.08% (1.03%). (D. Sreenivasam).

INSECTS

ARMYWORM (*Pseudaletia unipuncta*) - MINNESOTA - Localized outbreaks in small grains week ending July 25. District> County= status on oats: SW> Lincoln= larvae 150 per 0.09 sq m in marginal rows and 20 per 0.09 sq m in middle of 8.1-ha field mixed with foxtail west of Lake Benton, field cut and removed for silage. (D. Sreenivasam).

TURF, PASTURES, RANGELAND

INSECTS

A WEEVIL (*Polydorus cervinus*) - MASSACHUSETTS - New State record. County= collection data: Middlesex= 1 adult from hayfield on farm at Ashby, July 25, 1979, by M. Andelman, determined by V.L. Blackburn, confirmed by E.R. Hoebeke. (E.R. Hoebeke).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Appeared to be only active disease on alfalfa. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
NE> Jefferson	100	1	61
NE> Nemaha	trace	0	20
NE> Brown	2	0	20
NE> Doniphan	80	0	64
NC> Clay	trace	0	66
NC> Republic	not seen	-	41
NC> Jewell	not seen	-	38
NC> Cloud	not seen	-	46

INSECTS

THREECORNERED ALFALFA HOPPER (*Spissistilus festinus*) - ARIZONA - District> County= adults per 100 sweeps of alfalfa week ending July 31: C> Maricopa= 78, Pinal= 28-552, and SW> Yuma= 2-250. (R. Crout et al.).

POTATO LEAFHOPPER (*Empoasca fabae*) - OHIO - Population exceeded treatment threshold in Pickaway County, August 1. District> County= average per sweep of alfalfa [host height]: C> Pickaway= 6.4 [30-38 cm with buds] and NW> Paulding= 0.10 [13 cm]. (R. Wadleigh).

LYGUS BUGS (*Lygus* spp.) - ARIZONA - District> County= counts per 100 sweeps of alfalfa week ending July 31: C> Maricopa= adults 124, Pinal= nymphs 39 and adults 42-316, SW> Yuma= nymphs and adults 20-150, and SE> Graham= nymphs and adults 400. (R. Crout et al.).

SOYBEANS

DISEASES

CHARCOAL ROT (*Macrophomina phaseolina*) - KANSAS - District> County= prevalence on soybeans [bloom to pod production]: SE> Cherokee and NE> Riley= trace. (T. Sim, IV).

SOYBEAN BROWN SPOT (*Septoria glycines*) - INDIANA - Survey on soybeans, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	50	5	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> White	30	5	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NW> Jasper	6	5	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> Porter	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> La Porte	5	3	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> St. Joseph	15	5	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Marshall	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Fulton	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NC> Cass	12	2	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Carroll	87	3	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Howard	18	2	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Clinton	60	2	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf

DELAWARE - District> County= soybean brown spot prevalence on soybeans [host stage] in monitoring plots July 1-2: C> Kent= 98% [4-6 nodes], S> Sussex= 96% [5-6 nodes], and N> New Castle= 66% [first trifoliolate leaf to 3 nodes]. (R.B. Carroll, J.B. Helbig).

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - INDIANA - Survey on soybean leaves, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	not seen	not seen	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> White	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NW> Jasper	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> Porter	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> La Porte	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> St. Joseph	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Marshall	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Fulton	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NC> Cass	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Carroll	5	1	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Howard	trace	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Clinton	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - NEBRASKA - District> prevalence/severity on soybeans [one-half to full bloom]: E and NE> trace to 20%/1-5%. (S. Poe). KANSAS - Survey on soybeans [pod production] (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NE> Doniphan	30	light
NE> Brown	trace	light
NC> Clay	trace	light

INDIANA - Soybean bacterial blight on soybean leaves, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	40	3	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> White	60	4	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NW> Jasper	50	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> Porter	99	3	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> La Porte	99	5	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> St. Joseph	99	5	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Marshall	16	3	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Fulton	1	trace	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NC> Cass	92	5	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Carroll	81	3	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Howard	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Clinton	87	3	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf

BACTERIAL PUSTULE (*Xanthomonas phaseoli* f.sp. *sojensis*) - KANSAS - District> County= prevalence/severity on soybeans [host stage]: SC> Kiowa= trace/light [not reported] and NE> Brown= trace/light [pod production]. (T. Sim, IV).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - GEORGIA - Area> adults (average) per 4.6 row m of soybeans [beginning bloom] and percent leaf loss week of July 28: SW> 2 (2) and less than 5% in 1 field. (G. Galbreath).

WHITEFRINGED BEETLES (*Graphognathus* spp.) - GEORGIA - Area> adults (average) per 4.6 row m of soybeans [host stage] and percent leaf loss, if given, in number of fields (f) week of July 28: SW> 1-9 (4) [8 nodes to beginning bloom] and less than 5% in 6f (G. Galbreath), SE> 1-2 (1.3) [beginning to full bloom] and 1% in 6f (K.L. Davenport et al.), and C> 1 (1) [beginning bloom] in 1f. (W.J. Roberts).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - District> County= status on soybeans: NW> Jackson= heavy only in Silk Creek area. (J.E. Arnold).

GREEN CLOVERWORM (*Plathypena scabra*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [9 nodes to beginning bloom] and percent leaf loss week of July 28: SE> 1st and 2nd instars 2-6 (3.3) and 1% in 3 fields. (W.M. Fortson).

SOYBEAN LOOPER (*Pseudoplusia includens*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] and percent leaf loss, if given, in number of fields (f) week of July 28: SW> 2nd and 3rd instars 1 (1) [8 nodes to beginning bloom] and less than 5% in 2f (G. Galbreath) and SE> 1st to 4th instars 1-4 (1.9) [8 nodes to full bloom] and 1% in 9f (K.L. Davenport et al.).

CORN EARWORM (*Heliothis zea*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] and percent leaf loss, if given, in number of fields (f) week of July 28: SW> 2nd and 3rd instars 1-3 (1.7) [8 nodes to beginning bloom] and less than 5% in 3f (G. Galbreath), SE> 1st and 2nd instars 1-14 (7.7) [9 nodes to beginning bloom] in 3f (T.H. Murphy, W.M. Fortson), and C> 1st and 2nd instars [beginning bloom] in 2f (W.J. Roberts).

FALL ARMYWORM (*Spodoptera frugiperda*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [9 nodes] and percent leaf loss week of July 28: SE> 1st instar 7 (7) and 1% in 1 field. (W.M. Fortson).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [beginning bloom] and percent leaf loss week of July 28: SE> 4th instar 1 (1) and 1% in 1 field. (T.H. Murphy).

PEANUTS

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - FLORIDA - District> County= status on peanuts: NW> Jackson= 5-15 per 0.3 m in at least 50% of field. (J.E. Arnold).

COTTON

INSECTS

COTTON LEAFPERFORATOR (*Bucculatrix thurberiella*) - ARIZONA - District> County= counts on cotton week ending July 31: C> Maricopa= larvae 9-92 and adults 3 per 100 sweeps, Pinal= larvae 8-36 and adults 9 per 100 sweeps, and SW> Yuma= larvae 127 per 100 leaves. (L. Blackledge et al.).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - OHIO - District> County= status on potatoes week ending August 1: C> Pickaway= severe infestation continued, larvae averaged 4 and adults 2 per stem, defoliation 100% in 1 section of field and at least 50% in remainder, all terminals throughout field completely defoliated. (R. Wadleigh).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A BRACONID WASP (*Microctonus aethiopoidea*) - WISCONSIN - New county records. Reared from alfalfa weevil adults. District> County= collection data for *Hypera postica* (alfalfa weevil) adults from alfalfa: SW> Sauk= near Spring Green, Richland= near Sextonville, and SC> Dane= near Mazomanie, all collected May 14, 1980, by E. Arnold, determined by P.M. Marsh. (O.L. Lovett).

FEDERAL AND STATE PROGRAMS

DISEASES

A BARLEY STEM RUST (*Puccinia graminis* f.sp. *tritici*) trace on barley throughout United States in 1980, associated with low incidence of WHEAT STEM RUST (*Puccinia graminis* f.sp. *tritici*) and RYE STEM RUST (*Puccinia graminis* f.sp. *secalis*). (A.P. Roelfs, D. Long).

BLACK STEM RUST (*Puccinia graminis*) aecia collected in WEST VIRGINIA, WISCONSIN, MINNESOTA, and southeastern CANADA in 1980. Majority of aecial collections identified as RYE STEM RUST (*Puccinia graminis* f.sp. *secalis*) with a few OAT STEM RUST (*Puccinia graminis* f.sp. *avenae*) races identified. A FUNGUS (*Cumminsia sanguinea*) found on *Mahonia* sp. in MICHIGAN nursery. (Singh).

First OAT STEM RUST (*Puccinia graminis* f.sp. *avenae*) collected in United States March 31. Severity heavy on oats in TEXAS nurseries but minimal in commercial fields. Found in fields throughout northern oat area but severity and loss light due to earlier than normal crop maturity, low rainfall, and low amount of inoculum from the south. Majority of collections from the DAKOTAS, IOWA, MINNESOTA, and WISCONSIN received in past 21 days and still being processed for race identification. Frequency of race NA-5 increased but as more collections processed from north, race NA-27 increased in frequency. Following races identified from collections received before August 5, asterisk (*) represents less than 0.6%. (A.P. Roelfs, D. Long).

Area	Number of collections	Isolates of each oat stem rust race (%)			
		NA-5	NA-16	NA-23	NA-27
GA	1				100
IL	3		20		80
IN	1				100
IA	9	16			84
KS	1				100
LA	2		60		40
OK	1				100
SD	1				100
TX, S	47	54	2	9	35
TX, C	95	6	9		85
TX, N	21	9	32	4	55
Mexico, NE	9				100
Mexico, C	8	6	29	6	59
Mexico, NW	10		48		52
U.S. Totals					
1980 (preliminary)	182	19	9	3	69
1979	501	*	2	*	94
1978	422		12		84

RYE STEM RUST (*Puccinia graminis* f.sp. *secalis*) trace on rye in MINNESOTA and the VIRGINIAS in 1980. (A.P. Roelfs, D. Long).

No WHEAT STEM RUST (*Puccinia graminis* f.sp. *tritici*) overwintering centers in United States in 1980. Inoculum from only known overwintering source in Mexico arrived in U.S. too late, sparse, and infrequent to threaten wheat crop. First found at Dallas, TEXAS, June 10, 16 days later than normal for that location. Trace in susceptible wheat plots on June 16 in northern KANSAS and southern NEBRASKA where initially infected in early June. Could be found by mid-July in susceptible spring and winter wheat plots and in few commercial fields in north-central States. Significantly, collections few and race 15-TNM absent. In past 10 years, TNM ranked as most frequently identified race but race 151-QFB most commonly identified race in MEXICO and U.S. for 1980. Unknown how this change will affect rust populations in 1981 but could have considerable impact. Effects that could occur: Loss of a race (virulence/avirulence combination) from pathogen population, change in frequency of races, and very low level of inoculum initially in 1981. Following races identified from collections received before August 5, asterisk (*) represents less than 0.6% (A.P. Roelfs, D. Long).

Area	No. of collec- tions	Isolates of each wheat stem rust race (%)						
		15	29	56	113		151	
		TNM	HJC	MBC	RPO	RTQ	OCB	QFB
Mexico, Celaya	11				72		12	16
Mexico, Ciano	11		3	3		27		67
Mexico, Nuevo Leon	2		20					40
KS, N	1							100
NE, S	3							66
TX, N	2		50				50	
U.S. Totals								
1980 (preliminary)	6	0	17	0	0	0	17	50
1979	420	38	2	4	*	2	2	19
1978	320	57	*	1	1	4	2	5

For other rusts on small grains see p. 539.

INSECTS

CEREAL LEAF BEETLE (*Oulema melanopus*) - WISCONSIN - New county records. District> County= collection data from oats: C> Green Lake= larvae (very early instars to full grown, younger instars more numerous) light, about 1 per 100 sweeps near Village of Kingston, June 18, 1980, collected and determined by O. L. Lovett. EC> Winnebago= early instar larvae trace near Oshkosh, and Outagamie= late instar larvae trace near Appleton, both collected June 16 by J. Nara and determined by M. Conrad; larval parasitism by *Tetrastichus julis* (a eulophid wasp) about 30-80%. C> Portage= larvae collected near Almond, July 1, by E. Arnold, determined by M. Conrad. (O.L. Lovett).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= percent larval infestations week ending July 31: SW> Yuma= 4% at Yuma Mesa, 8% at Dome Valley, 4% in planted cotton and 40% in stub cotton at Parker, and 24-38% at Texas Hill; and C> Maricopa= 4-6% in most areas and 4-20% in some areas at Harquahala Valley. Adults per pheromone trap per day: C> Maricopa= 0-13, Pinal= 2-28, and SW> Yuma= 7-15. (C. Chandler et al.).

DETECTION

NEW UNITED STATES RECORD

INSECTS

A LEAFHOPPER (Eupteryx atropunctata (Goeze)) - CONNECTICUT - County= collection data: Windham= 1 male on Phaseolus vulgaris (beans) in garden at Willimantic, July 3, 1979, by W.M. Petrie, determined by E.R. Hoebeke, confirmed by J.P. Kramer. Common throughout Europe on many food plants. Abundant on mint family in gardens, recorded from Urtica, Lamium, and Lycopus species in Europe. Implicated as pest of sugar beets in Bohemia and of potatoes in the British Isles. (E.R. Hoebeke). Widespread in southern Ontario and southern Quebec. (B.P. Beirne).

NEW STATE RECORD

INSECTS

A WEEVIL (Polydrusus cervinus) - MASSACHUSETTS - Middlesex County. (p. 540).

NEW COUNTY RECORDS

INSECTS

A BRACONID WASP (Microctonus aethiopoides) - WISCONSIN - Sauk, Richland, and Dane. (p. 545).

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - Green Lake, Winnebago, Outagamie, and Portage. (p. 546).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
Mesa 7/30-8/5			B	17	470	18	3	7							2		1	9	
CALIFORNIA																			
Bellota 7/27	23-39.4	B		3	2	4													
Manteca 7/28	22-40	B		1	11	4						11					1		
FLORIDA																			
Gainesville 7/31-8/6		B			2	17					30	37		2				2	
KANSAS																			
Garden City 7/29-31,8/6-7		B		1		11				255	3							1	
Humboldt 7/29-31,8/1-3		B		12		761												0	
KENTUCKY																			
Lexington 7/31-8/5		B		65	2					14	6							16	
MARYLAND (County)																			
Caroline 8/1-3		B		26	2	2													
MINNESOTA																			
Fergus Falls 7/31-8/5	10-32	B		3				1		21								14	
Le Sueur 7/31-8/5	12-36	B		6						565									
MISSISSIPPI																			
Stoneville 8/1-7	21-37	2B		53	33	46	1145	2634			143	1		5	3	6			
NEBRASKA																			
Aurora 7/31-8/6		B		15		30	15			7652	11							22	
Clay Center 8/1-7		B		5		11	1			1423								14	6
NEW JERSEY																			
Allentown 8/1-7		B		38	0	1	0	0		79	0				0		0	0	
Vineland 8/1-7		B		62	2	17	5	2		4	3				2				
OHIO (Counties)																			
Putnam 7/28,30,31-8/2,3		B		27		21	0	0		12	0				0	0		1	0
Wayne 7/28-8/6		2B		185		49	0	0		37	1				0	0		26	0
SOUTH CAROLINA (Averages)																			
Long Creek 7/25-31		P						1.4											
Mountain Rest 7/25-31		P						0.3											
TENNESSEE																			
Franklin 7/31-8/7		B		5		3	12				31						18		6
Maury 7/31-8/7		B		6		11	28			375	3								
TEXAS																			
College Station 7/30-8/5		B		0		0	23	0			3			0	1	0	0		0

TRAP COLLECTIONS																				
	°C	precip.	Trap	ACw	Aw	BAw	BCw	CEw	CLO	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
VIRGINIA																				
			Painter	7/28-8/3	B	75	12	28	17		36	95				15	8		3	23
			Warsaw	7/29-8/4	B	5		27			175	1			53					2
WISCONSIN																				
			Lancaster	7/29-8/5	B	15	0	0			72								0	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	CLO	Cabbage Looper	R	Lr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	S	mC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	T	bH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	T	mH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	T	XB	Tobacco Budworm		

METRIC CONVERSION

1 cm	=	0.393701 in
1 m	=	3.28084 ft = 1.09361 yd
1 km	=	0.621371 mi
1 sq cm	=	0.155000 sq in
1 sq m	=	10.7639 sq ft = 1.19599 sq yd
1 ha	=	2.47104 acres
1 sq km	=	0.386101 sq mi
1 kg	=	2.20462 lb
1 t (metric ton)	=	1.10231 short ton
1 kg/ha	=	0.892183 lb/acre
1 t/ha	=	0.446091 ton/acre

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Agriculture

**Animal and Plant
Health Inspection
Service**

Plant Protection
and Quarantine

Cooperative Plant Pest Report

August 22, 1980

Vol. 5

No. 30



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

FALL ARMYWORM problems on sorghum (p. 554) and rice (p. 556) in parts of Arkansas, soybeans and peanuts (p. 560) in Florida, and will probably occur on corn (p. 554) in Kentucky.

CORN ROOTWORMS increased in most Indiana districts with WESTERN CORN ROOTWORM as one of contributing factors. (p. 555).

Detection

New State records include a BRACONID WASP in Illinois, Indiana, Iowa, Kentucky, Michigan, Missouri, and Wisconsin (p. 564) and another BRACONID WASP in Kentucky and Michigan (p. 564-565).

For new county records see pages 568-570.

Some First Occurrences of the Season

FALL ARMYWORM adult in New Hampshire. GRAPE BERRY MOTH adult in Ohio.

● Effective immediately, all telephone inquiries to the Survey Support Staff, CPPR, should be made on the following new number: 301-436-7474.

Reports in this issue are for the week ending August 15 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

SOUTHERN LEAF BLIGHT (*Cochliobolus* (*Bipolaris*) *heterostrophus*) - ILLINOIS - District> County= prevalence/severity of *Bipolaris maydis* on corn [host stage] in 1 commercial field each, week of August 4: SW> Williamson= 100%/3% [dough], SE> Saline= 80%/1% [dent], Gallatin= 90%/2% [all kernels dented], White= 100%/12% [dent], Wayne= 50%/trace [dough], and ESE> Clay= 20%/trace [dough]. (E.G. Jordan).

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus* (*Bipolaris*) *carbonum*) - ILLINOIS - District> County= prevalence/severity of imperfect stage on corn [host stage] in 1 commercial field each, week of August 4: SW> Williamson= 20%/trace [dough], SE> Saline= 10%/trace [dent], Gallatin= 5%/trace [all kernels dented], White= trace/trace [dent], Wayne= trace/trace [dough], and ESE> Clay= 20%/trace [dough]. (E.G. Jordan).

NORTHERN LEAF BLIGHT (*Setosphaeria* (*Exserophilum*) *turcica*) - PENNSYLVANIA - District> County= prevalence of imperfect stage on '100 day maturity' corn [blister] July 30: SC> Franklin= 99% (lesions covered 15-20% of leaf area through 8-9th leaf) on 100 ha. (D.T. Ware).

COMMON SMUT (*Ustilago maydis*) - ILLINOIS - District> County= prevalence on corn [host stage] in 1 commercial field each, week of August 4: SW> Williamson= 2% [dough], SE> Saline= 3% [dent], Gallatin= 5% [all kernels dented], White= 4% [dent], Wayne= 1% [dough], and ESE> Clay= trace [dough]. (E.G. Jordan).

COMMON MAIZE RUST (*Puccinia sorghi*) - ILLINOIS - District> County= prevalence/severity on corn [host stage] in 1 commercial field each, week of August 4: SW> Williamson= trace/trace [dough], SE> Saline= trace/trace [dent], Gallatin= trace/trace [all kernels dented], White= trace/trace [dent], Wayne= trace/trace [dough], and ESE> Clay= trace/trace [dough]. (E.G. Jordan).

ANTHRACNOSE LEAF BLIGHT (*Colletotrichum graminicola*) - ILLINOIS - District> County= prevalence/severity on corn [host stage] in 1 commercial field each, week of August 4: SW> Williamson= trace/trace [dough], SE> Saline= trace/trace [dent], Gallatin= trace/trace [all kernels dented], White= 20%/trace [dent], Wayne= 10%/trace [dough], and ESE> Clay= 25%/trace [dough]. (E.G. Jordan).

CORN GRAY LEAF SPOT (*Cercospora zeae-maydis*) - PENNSYLVANIA - District> County= prevalence on '110 day maturity' corn [blister] August 6: SC> Franklin= 99% (lesions covered 1-15% of leaf area through 10th leaf) on 40 ha. (D.T. Ware).

HOLCUS SPOT (*Pseudomonas syringae*) - SOUTH DAKOTA - Area> prevalence on dent corn [blister to soft dough] August 4-14: NE, EC, and SE> trace to light.
NORTH DAKOTA - Area> prevalence on dent corn [blister to soft dough] August 4-14: EC, C, and SE> trace to light. (V.L. Jons).

STEWART'S WILT (*Erwinia stewartii*) - ILLINOIS - District> County= prevalence/severity on corn [host stage] in 1 commercial field each, week of August 4: SW> Williamson= 40%/1% [dough], SE> Saline= 100%/4% [dent], Gallatin= 100%/8% [all kernels dented], White= 80%/1% [dent], Wayne= 100%/10% [dough], and ESE> Clay= 100%/9% [dough]. (E.G. Jordan).

GOSS'S WILT (*Corynebacterium nebraskense*) - IOWA - New county records. District> County= collection data from *Zea mays* (corn): NW> Buena Vista= at Storm Lake, by R. Nyvall; and EC> Jones= at Anamosa, by J. Legg. Both collected August 15, 1979, and determined by R. Nyvall. (D.J. Williams).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - ALABAMA - New county record. District> County= collection data from corn: SW> Clarke= 3 specimens near road on farm at Gasport, May 22, 1980, by T. Lemons, determined by W.N. Stephenson. (R.G. Milam). TENNESSEE - New county record. District> County= collection data from corn: West Tennessee> Henderson= infested 2-22% of stalks in garden near Lexington, June 18, 1980, collected and determined by L. Dersch. (M. Cooper, L. Dersch). KANSAS - District> County= status on corn: NW> Sheridan= egg laying increased, up to 50% of plants with eggs, but little hatching, in Hoxie area (H.L. Brooks, G.E. Sanden) and SW> Gray= larvae (up to 12.7 mm long) infested up to 36% of plants. (L.K. Kraus, H.L. Brooks).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - KANSAS - District> County= status week ending August 8: SC> Stafford= egg laying decreased at St. John (F.L. Poston, D.D. Calvin), Kiowa= 60% of plants still intact with eggs in field (G.A. Salisbury), and WC> Greeley= adults flying as far north and west as Tribune (K.O. Bell, Jr.).

FALL ARMYWORM (*Spodoptera frugiperda*) - ARKANSAS - Area> status on sorghum week ending August 8: Southern one-half of State> still heavy, treatment required. (G. Barnes). FLORIDA - District> County= status on sorghum July 24-30: NW> Jackson= damage heavy to young plants in untreated fields north of Marianna, larvae 3 per sorghum [13 cm tall] plant common, averaged 5 per plant on leaves and whorls on much larger sorghum, [just beginning to form heads] in 6.1 to 8.1-ha field north of Marianna. (W.B. Tappan).

NORTH CAROLINA - Corn or sorghum not tasseled or headed has 90% chance of being infested by fall armyworm. Damage in all pretasseling corn fields sampled in Piedmont area August 4-8. Infestations in northern Piedmont expected to move to lush grass as this late corn begins tasseling. (T.N. Hunt).

KENTUCKY - Fall armyworm populations continued to increase and reached severe levels in some fields. District> County= status on corn week ending August 1: C> Taylor= larvae nearly full grown and many parasitized when infestation seen, infestation 100%, damage severe; Warren= early instars in late-planted field; and Bluegrass> Franklin= late instars infested about 20% of plants in late-planted field, problems expected to increase, especially in late-planted fields. (L.H. Townsend). NEW HAMPSHIRE - First adult of season. County= status August 6: Rockingham= taken from light trap at Derry. (A.T. Eaton).

POTATO STEM BORER (*Hydroecia micacea*) - NEW YORK - New county records. District> County= collection data from corn: E> Montgomery= larvae (about 19 mm long) collected from field in sod in 1979, (at least 10% of field infested) at Minden, June 2, 1980, collected and determined by F. Brueck; SE> Columbia= infestation in second year corn mostly along field edge, larvae (about 19 mm long) collected at Ancram, June 4, 1980, by K. Piester, determined by H. Willson; and Dutchess= infested 60-70% in some areas of field, about 5% in most of field in northeastern area at Millerton, June 24, 1980, collected by D. Petor, determined by H. Willson. (H. Willson).

CORN EARWORM (*Heliothis zea*) - TEXAS - District> County= counts of this species and TOBACCO BUDWORM (*Heliothis virescens*) on sorghum week ending August 1: Edwards Plateau> Tom Green around San Angelo, and far western area> heavy in heads and whorls. (J.A. Jackman). ARKANSAS - Area> status of this species and FALL ARMYWORM (*Spodoptera frugiperda*) on green sorghum week ending August 1: Southern counties> larvae 8-10 per head, at treatment levels in several fields. (G. Barnes).

NORTH CAROLINA - District> County= corn earworm status: Southern Coastal counties and southern Piedmont area> adult catches decreased; Southern Coastal> Brunswick, Robeson, Scotland, Bladen, and Sampson= traps indicated decrease August 4-8; central Coastal Plains and northern counties> adults remained above 1979 levels; southern Coastal Plains and Piedmont> decrease in egg laying likely August 8-13 in fields; and northern one-half of State> egg laying expected to continue through August 15 at various levels. (T.N. Hunt). NEW HAMPSHIRE - First adult of season. County= adults August 4: Strafford= taken from light trap at Dover. (A.T. Eaton).

CORN ROOTWORMS (*Diabrotica* spp.) - IDAHO - District> County= status of WESTERN CORN ROOTWORM (*Diabrotica virgifera*) on corn July 29: SW> Canyon= adult found about 3 km southeast of Nampa, about 2 km east of site in 1979. (G.W. Bishop). INDIANA - Estimates of WESTERN CORN ROOTWORM (*Diabrotica virgifera*) and NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) adults on 25 corn plants per field July 21 to August 6 (R.W. Meyer):

District	Mean per stalk				Host stage	Number of fields
	<i>Diabrotica virgifera</i>	<i>Diabrotica virgifera</i>	<i>Diabrotica longicornis</i>	<i>Diabrotica longicornis</i>		
	1980	1979	1980	1979		
NW	0.89	0.47	0.03	0.05	green to silk	30
NC	1.22	0.69	0.02	0.20	green to silk	30
NE	0.38	0.28	0.02	0.16	green to silk	35
WC	0.89	0.55	0.04	0.10	green to silk	28
C	0.86	0.31	0.04	0.05	green to silk	30
EC	1.17	0.30	0.06	0.04	green to silk	31
SW	0.02	0.06	0.10	0.05	milk	18
SC	0.17	0.04	0.05	0.43	milk	18
SE	0.06	0.01	0.44	0.36	milk	21

KENTUCKY - New county record. District> County= *Diabrotica virgifera* collection data from corn [silk]: Midwestern> Union= adults collected near Morganfield, July 17, 1980, by L.H. Townsend, determined by P.E. Sloderbeck. (P.E. Sloderbeck). WEST VIRGINIA - District> County= adults on corn [silk] August 13: E> Greenbrier= heavy on silks. (G.L. Clement).

GREENBUG (*Schizaphis graminum*) - TEXAS - Area> status on sorghum week ending August 1: South Plains> populations remained generally light, economic in fields and populations increased. (J.A. Jackman). KANSAS - District> County= counts on sorghum [host stage if given] week ending August 8: EC> Chase, Morris, Geary, C> Dickinson, Saline, and NC> Ottawa= none [30 cm tall to milk] (K.O. Bell, Jr.); SC> Comanche, Harper, and Pawnee= trace to 43 per plant [5th leaf to bloom] (G.A. Salisbury); SE> Bourbon and Neosho= none found (G.E. Lippert); and NE> Brown and Doniphan= none seen (B.D. Hilbert).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - NORTH DAKOTA - Area> prevalence on spring wheat [flower to ripe] July 28 to August 8: NC, NE, C, EC, and SE> trace. (V.L. Jons).

TAN SPOT (*Pyrenophora trichostoma*) - NORTH DAKOTA - Area> severity on spring wheat and durum wheat [flower to ripe] July 28 to August 8: NC, NE, C, EC, and SE> ranged from moderate on lower leaves to light on upper and flag leaves. (V.L. Jons).

LOOSE SMUT (*Ustilago nuda*) - NORTH DAKOTA - Area> prevalence on spring and durum wheat [flower to early dough] July 14-31: NE, EC, NC, C, EC, and SE> trace. (V.L. Jons).

SCAB (*Fusarium* spp.) - NORTH DAKOTA - Area> prevalence on spring and durum wheat [milk to ripe] July 28 to August 8: C, EC, and SE> trace. (V.L. Jons).

WHEAT STRIATE MOSAIC VIRUS - NORTH DAKOTA - Area> prevalence on durum wheat [boot to milk] July 14-18: NC, NE, C, EC, and SE> trace. (V.L. Jons).

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - ARKANSAS - Area> status on rice week ending August 8: Southern one-half of State> counts still heavy, treatments required. (G. Barnes).

RICE WATER WEEVIL (*Lissorhoptrus oryzophilus*) - ARKANSAS - Area> adults on rice heads week ending August 1: Northeastern counties> feeding heavy in several fields. Treatments applied due to disease entry through feeding scars. (G. Barnes).

CORN LEAF APHID (*Rhopalosiphum maidis*) - IDAHO - District> County= status of late-planted spring barley July 30: E> Bonneville, Caribou, Bannock, and Fremont= damage severe with 10-100 per flag leaf in field. (R. Hillman, L.E. Sandvol).

TURF, PASTURES, RANGELAND

INSECTS

A DIASPIDID SCALE (*Aspidiella sacchari*) - FLORIDA - New county record. District> County= collection data from *Panicum repens* (torpedograss): C> Lake= adults infested stems of few plants in nursery at Lake Jem, June 19, 1980, collected by L. Chambliss and A. Bentley, determined by A.B. Hamon. Plants in wild for several years. (L. Chambliss).

A DIASPIDID SCALE (*Circulaspis fistulella*) - FLORIDA - New county record. District> County= collection data from *Sporobolus indicus* (a grass): S> Indian River= adults moderately infested leaves and stems near Oslo, May 21, 1980, collected by E. Campbell, determined by A.B. Hamon. Plants along ditchbank. (E. Campbell).

A DIASPIDID SCALE (*Odonaspis penicillata*) - FLORIDA - New county record. District> County= collection data from *Cynodon dactylon* (bermudagrass): C> Citrus= adults moderately infested roots in 10 plots along river at Crystal River, June 13, 1980, collected by R. Phillips, determined by A.B. Hamon. Plants on Indian mounds in wild. (R. Phillips).

FORAGE LEGUMES

INSECTS

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - IDAHO - District> County= counts July 24: SW> Gem= small population found for first time in alfalfa seed field about halfway between Letha and Emmett, and Canyon= 40+ per stem in spring-seeded alfalfa seed field near Dry Lake, excessive honeydew and black mold present. (N.D. Waters).

APHIDS (*Acyrtosiphon* spp.) - NEVADA - District> County= PEA APHID (*Acyrtosiphon pisum*) and BLUE ALFALFA APHID (*Acyrtosiphon kondoi*) range (average) per sweep of seed alfalfa: W> Humboldt= 0.8-13.2 (no data) at Jungo, July 22-23; 17.1-486.7 (80.1) at Orovada, July 14-20; and Pershing= 1-201.6 (77.8) at Lovelock, July 14-20. (M. Spencer, L. Stitt). Mostly pea aphid week ending July 25: W> Pershing= 2-318 (92) on forage alfalfa at Lovelock (M. Spencer); Lyon= 1-75 (no data) on hay alfalfa in Mason Valley; S> Mineral= 8-50 (no data) on hay alfalfa at Schurz; and Esmeralda= 5-250 with higher percentage of blue alfalfa aphid (up to 46%) in some hay alfalfa in Fish Lake Valley (G. Kerr).

POTATO LEAFHOPPER (*Empoasca fabae*) - MARYLAND - Area> status on forage legumes week ending August 1: Statewide> populations continued very heavy and C counties> populations heaviest with several fields above economic threshold levels. (R. Hochmuth).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*) - INDIANA - Survey on soybeans, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	3	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> White	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NW> Jasper	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> Porter	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> La Porte	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> St. Joseph	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Marshall	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Fulton	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf

District> County	Prevalence (%)	Host stage
NC> Cass	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Carroll	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Howard	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Clinton	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf

SOUTHERN BLIGHT (*Pellicularia* (*Sclerotium*) *rolfsii*) - MARYLAND - Area> status of imperfect stage on soybeans week ending August 1: Eastern Shore> reports continued, and central Eastern Shore counties> reported. (R. Hochmuth).

PHYLLOSTICTA LEAF SPOT (*Phyllosticta sojaecola*) - INDIANA - Survey on soybean leaves, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	not seen	not seen	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> White	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NW> Jasper	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> Porter	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> La Porte	trace	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> St. Joseph	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Marshall	trace	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Fulton	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NC> Cass	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Carroll	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Howard	trace	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Clinton	not seen	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf

SOYBEAN MOSAIC VIRUS - INDIANA - Survey on soybeans, 1 field each, July 27 to August 2 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	not seen	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> White	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf

District> County	Prevalence (%)	Host stage
NW> Jasper	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> Porter	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NW> La Porte	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> St. Joseph	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Marshall	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Fulton	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
NC> Cass	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Carroll	trace	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Howard	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Clinton	not seen	pod 5 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf

INSECTS

SOYBEAN LOOPER (*Pseudoplusia includens*) - GEORGIA - Area> larval counts (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f): SW> 1st to 5th instars 1-4 (2.2) [beginning to full bloom] and 5-20% in 8f (G. Galbreath, W.T. Glover), SE> 1st to 3rd instars 1-2 (1.4) [beginning pod] and 0% in 5f (K.L. Davenport), and C> 1st instar 1 (1) [beginning bloom] and 5% in 1f (E.L. Coker).

CORN EARWORM (*Heliothis zea*) - GEORGIA - Area> larval counts (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f): SW> 1st to 5th instars 1-16 (8.2) [beginning to full bloom] and 5-20% in 10f (G. Galbreath, W.T. Glover), SE> 3rd to 4th instars 6-77 (28.2) [beginning to full bloom] and 5-30% in 4f (W.M. Fortson), and C> 2nd to 5th instars 3-75 (20.2) [beginning pod] and 5-20% in 6f (W.J. Roberts).

NORTH CAROLINA - Corn earworm developed in all open canopy soybean fields of central and southern Coastal Plains. Fields with combination of blooms and open canopies (not lapped) July 28 to August 8 will be most infested. Open canopy fields with no blooms also expected to reach damaging levels. Surveys conducted across Piedmont and Coastal Plain areas August 4-7 revealed 70% of fields not lapped. District> County= status: Southern Piedmont> Mecklenburg at Charlotte, Southern Coastal> Robeson at Lumberton, Sampson at Clinton, Central Coastal> Lenoir at Kinston, and Pitt at Greenville= field damage likely if controls not properly timed July 4-7, southern counties= larvae (9.51-13 mm long) 2 per 0.3 row m, damaged scattered fields, Southern and Central Coastal Plains> 50% or more of open canopy fields expected to reach damaging levels August 8-13, Northern Coastal> Northampton, Halifax, Martin, and Hertford= not expected to reach threshold levels until August 13-16, and Southern Piedmont> Richmond, Anson, and Union= small larvae in field. (T.N. Hunt).

FALL ARMYWORM (*Spodoptera frugiperda*) - FLORIDA - District> County= status on soybeans July 30: NW> Jackson= very widespread, considerably over threshold of 4 per 0.3 row m, larvae averaged 12-15 per 0.3 row m, various instars present, larvae currently feeding on foliage since pods not yet formed, newly hatched larvae abundant, many hectares infested, many fields treated; adults common and flying around. (J. Arnold, R.K. Sprengel).

POTATO LEAFHOPPER (*Empoasca fabae*) - MARYLAND - Spotty, heavy populations caused severe burn on soybeans on Eastern Shore. District> County= status week ending August 1: Eastern Shore> Dorchester= 15-30 per plant in 1 field, treatment recommended. (R. Hochmuth).

PEANUTS

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - FLORIDA - District> County= status on peanuts July 29-30: NW> Jackson= heaviest populations since observations started in 1975 in field north of Marianna, larvae up to 51 (average 28) per 0.3 row m in 'Florunner' (untreated control) test plots; fall armyworm nearly 62%, CORN EARWORM (*Heliothis zea*) 20%, and GRANULATE CUTWORM (*Feltia subterranea*) 16%. On peanut varieties being checked for resistance, larvae 18.3-62.3 per 0.3 row m on 'Valencia', corn earworm 38%, fall armyworm 34%, and granulate cutworm 24%. Population exploded late in July. (W.B. Tappan).

TOBACCO THRIPS (*Frankliniella fusca*) - FLORIDA - District> County= status on untreated peanuts July 30: NW> Jackson= populations about 10 times as heavy north of Marianna as at same time in 1979, currently averaged 2.5 per bud, with 50% foliar damage (23% in 1979). (W.B. Tappan).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Counts generally light in western parts of range, economic levels reached in some cotton fields in Winter Garden and Blacklands areas week ending August 1. (J.A. Jackman).

BOLLWORMS (*Heliothis* spp.) - TEXAS - Area> BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) status on cotton week ending August 1: State-wide> counts increased, and South Plains and Rolling Plains> problems occurred. (J.A. Jackman).

BEANS AND PEAS

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - FLORIDA - New county record. District> County= collection data from snap beans: C> Hernando= at Brooksville, May 2, 1980, by L. Nong, determined by R.I. Sailer and L. Nong. (L. Nong).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - VIRGINIA - District> County= adults in pheromone traps: C> Nelson= 5. (J.P. McCaffrey).

ORIENTAL FRUIT MOTH (*Grapholitha molesta*) - VIRGINIA - District> County= adults in pheromone traps: C> Nelson= 61. (J.P. McCaffrey).

SMALL FRUITS

INSECTS

GRAPE BERRY MOTH (*Endopiza viteana*) - OHIO - First adult of season. District> County= adults in pheromone traps: NE> Wayne= 1 in 1 of 6 traps July 31, second specimen collected August 6. (R. Williams).

ROSE SCALE (*Aulacaspis rosae*) - FLORIDA - New county record. District> County= collection data from *Rubus* sp. (blackberry): C> Levy= infested stems of few plants in nursery at Gulf Hammock, May 29, 1980, collected by F. McHenry, determined by A.B. Hamon. Plants on property 1+ years. (F. McHenry).

ORNAMENTALS

INSECTS

A DIASPIDID SCALE (*Abgrallaspis cyanophylli*) - FLORIDA - New county record. District> County= collection data from cactus plants: NW> Calhoun= moderate in nursery at Blountstown, May 13, 1980, collected by D. Reese, determined by A.B. Hamon. Plants in nursery 1+ years. (D. Reese).

A DIASPIDID SCALE (*Aonidomytilus solidaginis*) - FLORIDA - New county records. District> County= collection data: C> Hernando= adults scattered on stems of 3 *Eupatorium capillifolium* (dog fennel) plants in nursery at Brooksville, May 23, 1980, collected by R. Phillips, plants native in wild (R. Phillips); and C> Volusia= adults moderately infested leaves of *Eupatorium* sp. and *Nyssa sylvatica* (black tupelo) at camper and trailer park at Astor, June 17, collected by C. Roberts and A. Bentley, plants established for many years, both determined by A.B. Hamon (C. Roberts, A. Bentley).

ROSE SCALE (*Aulacaspis rosae*) - FLORIDA - New county record. District> County= collection data from wild *Rosa* sp. (rose): C> Putnam= adults on stems of few plants along riverfront at Palatka, June 17, 1980, collected by K. Elliott, determined by A.B. Hamon. (K. Elliott).

A DIASPIDID SCALE (*Carulaspis minima*) - FLORIDA - New county record. District> County= collection data from *Juniperus chinensis* 'Pfitzerana' (pfitzer juniper) plants: C> Hernando= adults moderately infested leaves of few plants at shopping plaza at Brooksville, April 2, 1980, collected by R. Phillips, determined by A.B. Hamon. Plants on property 1+ years. (R. Phillips).

A DIASPIDID SCALE (*Chionaspis nyssae*) - FLORIDA - New county record. District> County= collection data from *Eupatorium* sp. plant and *Nyssa sylvatica* (black tupelo) trees: C> Volusia= adults moderately infested leaves at camper and trailer park at Astor, June 17, 1980, collected by C. Roberts and A. Bentley, determined by A.B. Hamon. Plants established for many years. (C. Roberts, A. Bentley).

A DIASPIDID SCALE (*Gymnaspiis aechmeae*) - FLORIDA - New county record. District> County= collection data from *Neoregelia* spp. (bromeliad) plants: C> Flagler= adults moderately infested leaves of 50% of 200 plants at State park at Marineland, July 2, 1980, collected by K. Elliott, determined by E. Mercer; confirmed by A.B. Hamon. Plants established. (K. Elliott).

A DIASPIDID SCALE (*Hemiberlesia palmae*) - FLORIDA - New county record. District> County= collection data from Ficus citrifolia (fig) plants: S> Monroe= adults moderately infested 4 plants in nursery at Summerland Key, May 13, 1980, collected by G. Andersen and H. Von Wald, determined by A.B. Hamon. Plants on homeowner's property 1+ years. (G. Andersen).

A DIASPIDID SCALE (*Kuwanaspis pseudoleucaspis*) - FLORIDA - New county record. District> County= collection data from Bambusa sp. (bamboo) plant: C> Citrus= adults on stems in wild near Crystal River, June 3, 1980, collected by R. Phillips, determined by A.B. Hamon. (R. Phillips).

A DIASPIDID SCALE (*Pinnaspis strachani*) - FLORIDA - New county record. District> County= collection data from Rhapis excelsa (bamboo palm): C> Gilchrist= adults on leaves in nursery at Fanning Springs, May 13, 1980, collected by C. Rihard and C. Collins, determined by A.B. Hamon. Plant on property many years. (C. Rihard).

A DIASPIDID SCALE (*Rhizaspidiotus dearnessi*) - FLORIDA - New county record. District> County= collection data from Eupatorium sp. plant and Nyssa sylvatica (black tupelo) trees: C> Volusia= adults moderately infested leaves at camper and trailer park at Astor, June 17, 1980, collected by C. Roberts and A. Bentley, determined by A.B. Hamon. Plants established many years. (C. Roberts, A. Bentley).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - ARKANSAS - New county record. District> County= collection data from Pinus taeda (loblolly pine): SE> Drew= from sample near McGehee, May 28, 1980, by J. Brigrance, determined by R.T. Robbins. (M.A. Mayse). MISSOURI - New county record. District> County= collection data from Pinus sylvestris (Scotch pine): E> Perry= from homestead at Perryville, July 23, 1980, by homeowner (unknown), determined by A. Foudin. (A. Foudin). MINNESOTA - New county record. District> County= collection data from Pinus sylvestris (Scotch pine): EC> Ramsey= from plantation at Vadnais Heights, July 24, 1980, by K. Robbins, determined by A. Foudin. (A. Foudin).

WISCONSIN - New county records. District> County= pinewood nematode collection data: WC> Jackson= from Pinus banksiana (jack pine) near large burned area in jack pine forest at Shamrock, June 26, 1980; SW> Grant= from Pinus nigra (Austrian pine) at Boscobel, July 10; NC> Price= from Pinus nigra in forested area at Fifeild, July 19. All collected by T. Nicholls and determined by A. Foudin. (A. Foudin).

INDIANA - New county records. District> County= pinewood nematode collection data from Pinus sylvestris (Scotch pine): SC> Perry= on State Highway 70, 2 km east of State Highway 37 on north side of road cut, June 4, 1980, by E. McCleerey; SW> Martin= in yard at Loogootee, June 18, by E.R. Campen; Pike= in yard of residence in State forest at Winslow, June 19, by C. Keller; SE> Jennings= from tree near office in State Forest, at North Vernon, June 26, by J. Schuerman, Jr. All determined by A. Foudin. (A. Foudin).

INSECTS

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NORTH DAKOTA - New county record. District> County= collection data from multilure pheromone sticky board trap on elm tree: WC> Oliver= adult collected in rural area, 32 km from city, near Center, June 11, 1980, collected and determined by W.J. Brandvik. (W.J. Brandvik).

A DIASPIDID SCALE (Chionaspis heterophyllae) - FLORIDA - New county record. District> County= collection data from Pinus palustris (longleaf pine): S> Brevard= nymphs and adults on leaves of few trees in wild near Cocoa, July 2, 1980, collected by R. Burns and P. Henderson, determined by A.B. Hamon. (R. Burns, P. Henderson).

A DIASPIDID SCALE (Chionaspis nyssae) - FLORIDA - New county record. District> County= collection data from Nyssa sylvatica (black tupelo): NE> Suwannee= infestation heavy on leaves of all 10 plants along river near Branford, June 20, 1980, collected by H. Collins, determined by A.B. Hamon. (H. Collins).

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - New county records. District> County= collection data from Liquidambar styraciflua (sweetgum): NE> Nassau= adults moderately infested leaves of few plants near creek at Yulee, June 26, 1980, collected by C. Webb and H. Collins (C. Webb, H. Collins); C> Clay= adults heavily infested leaves of 4 plants at residence at Orange Park, July 1, collected by G. Wade, plants on homeowner's property 1+ years. Both determined by A.B. Hamon. (K. Elliott).

A DIASPIDID SCALE (Hemiberlesia diffinis) - FLORIDA - New county record. District> County= collection data from Magnolia grandiflora (southern magnolia): C> Citrus= adults on stems at resort country club at Crystal River, April 30, 1980, collected by R. Phillips and R. Clark, determined by A.B. Hamon. Tree established at least 5 years. (R. Clark).

A DIASPIDID SCALE (Quadraspidotus taxodii) - FLORIDA - New county records. District> County= collection data from Taxodium distichum (bald-cypress): NE> Baker= adults on leaves of tree in wild near Macclenny, April 22, 1980, collected by H. Collins and C. Webb (H. Collins, C. Webb); C> Hernando= adults moderately infested leaves in nursery at Brooksville, June 5, collected by R. Phillips, plants received more than 1 year ago (R. Phillips); Putnam= adults on fruit along river at Palatka, June 16, collected by K. Elliott, plants in wild. All determined by A.B. Hamon. (K. Elliott).

A DIASPIDID SCALE (Velataspis dentata) - FLORIDA - New county record. District> County= collection data from Persea sp. (a bay plant): C> Bradford= adults moderately infested leaves in nursery at Starke, July 1, 1980, collected by C. Riherd, determined by A.B. Hamon. Plants established for some time. (C. Riherd).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A BRACONID WASP (Microctonus aethiopoides) - New State and county records. Collected from Hypera postica (alfalfa weevil) adults on alfalfa in 1980. An asterisk (*) indicates new State record. (T.L. Burger).

State	District> County	Town or township	Collection date	Collector	Determiner
IL	NW> Carroll	Mount Carroll	May 21	S. Sanderson	T.L. Burger
IL	NW> Henry	Galva	May 20	S. Sanderson	T.L. Burger
IL	NE> De Kalb	Kingston	May 22	S. Sanderson	T.L. Burger
IL	NE> La Salle	Bruce	May 21	S. Sanderson	T.L. Burger
IL	W> Knox	Walnut Grove	May 20	S. Sanderson	T.L. Burger
IL	W> Hancock	Wilcox	May 19	S. Sanderson	T.L. Burger
IL	E> Kankakee	Aroma	May 23	S. Sanderson	T.L. Burger
IL	E> Iroquois	Papineau	May 23	S. Sanderson	T.L. Burger
IL	E> Vermilion	Catlin	May 6	R. Larson	T.L. Burger
IL	WSW> Greene	Rockbridge	May 3	R. Larson	T.L. Burger
IL	ESE> Clark	Casey	May 5	R. Larson	T.L. Burger
IL	ESE> Marion	Centralia	May 9	R. Larson	T.L. Burger
IL	SW> Washington	Irvington	May 9	R. Larson	T.L. Burger
IL	SE> Edwards*	T2S R14W section 2	May 1	R. Larson	T.L. Burger
IL	SE> Pope	T13S R5E section 13	May 3	R. Larson	T.L. Burger
IN	NC> Fulton	Union	May 13	M. Michaelis	T.L. Burger
IN	C> Boone	Washington	May 8	M. Michaelis	T.L. Burger
IN	C> Decatur	Sand Creek	May 9	B. Sproat	T.L. Burger
IN	EC> Henry	Spiceland	May 15	B. Sproat	T.L. Burger
IN	SC> Monroe*	Richland	May 1	B. Sproat	T.L. Burger
IN	SC> Lawrence	Indian Creek	May 7	J. Carroll	T.L. Burger
IA	SE> Louisa*	Concord	May 12	W. Wintersteen	T.L. Burger
IA	SE> Mahaska	East Des Moines	May 19	C. Stoltenow	T.L. Burger
IA	SE> Davis	Prairie	May 20	C. Wallerich	T.L. Burger
IA	EC> Jones	Wayne	May 23	R. Larson	T.L. Burger
IA	NE> Clayton	Volga	May 27	R. Larson	T.L. Burger
KY	N> Oldham*	Louisville	Apr 24	V. Johnson	T.L. Burger
KY	N> Campbell	Peach Bloom	Apr 25	V. Johnson	W.H. Day, R. J. Dysart, R.W. Fuester
KY	C> Jefferson	Anchorage	May 23	V. Johnson	T.L. Burger
KY	Bluegrass> Fayette	Mattoxtown	May 1	L. Conn	T.L. Burger
MI	Upper Peninsula> Delta*	Bark River	May 21	H. Line	T.L. Burger
MO	NC> Schuyler*	T64N R15W section 9	May 15	J. Wallerich	T.L. Burger
OH	C> Union	Richwood	May 14	J.T. Carl	R.J. Dysart
PA	SW> Somerset	Jenner	May 9	S.C. Miller	R.J. Dysart
PA	NC> Tioga	Deerfield	Jun 3	H. Gates	R.J. Dysart
PA	SW> Washington	Jefferson	May 16	M. Barra	R.J. Dysart
VA	N> Frederick	Stonewall	Apr 23	V. Heyos	R.J. Dysart
VA	W> Highland	Bluegrass	May 8	W.D. Jones	R.J. Dysart
WV	SW> Mason	Union	May 5	S.A. Moore	R.J. Dysart
WV	E> Pendleton	Harper	May 20	W.D. Jones	R.J. Dysart
WV	NW> Wetzel	Magnolia	May 6	A. Tustin	R.J. Dysart
WI	WC> Tempealeau*	Caledonia	May 14	C. Neff	T.L. Burger
WI	NC> Shawano	Richmond	May 20	H. Line	T.L. Burger

A BRACONID WASP (*Microctonus colesi*) - New State and county records. Collected from *Hypera postica* (alfalfa weevil) adults on alfalfa in 1980. (T.L. Burger).

Asterisk (*) indicates new State record.

State	District> County	Town or township	Collection date	Collector	Determiner
KY	N> Campbell*	Peach Bloom	Apr 25	V. Johnson	W.H. Day, R.J. Dysart, R.W. Fuester
KY	Bluegrass>				
	Fayette	Lexington	May 13	J. Parr	T.L. Burger
MI	SC> Ionia*	Campbell	May 14	D. Boughton	W.H. Day, R.J. Dysart, R.W. Fuester
OH	NW> Wood	Perrysburg	Jun 3	G. Bernon	W.H. Day
VA	W> Highland	Bluegrass	May 19	W.D. Jones	T.L. Burger
WV	E> Pendleton	Harper	May 28	H.L. Smith	W.H. Day

A EULOPHID WASP (*Tetrastichus incertus*) - OHIO - New county records. District> County= collection data from *Hypera postica* (alfalfa weevil) larvae on alfalfa: NW> Wood= at Middleton, May 23, 1980, by G. Bernon, determined by T.L. Burger. (T.L. Burger).

AN ICHNEUMONID WASP (*Bathyplectes anurus*) - New county records. Collected from *Hypera postica* (alfalfa weevil) larvae on alfalfa in 1980. (T.L. Burger).

State	District> County	Town or township	Collection date	Collector	Determiner
IN	EC> Henry	Spiceland	May 22	B. Sproat	T.L. Burger
IN	NW> La Porte	Wills	May 29	M. Michaelis	T.L. Burger
KY	N> Campbell	Peach Bloom	May 5	V. Johnson	T.L. Burger
MI	SE> Livingston	Hartland	May 29	S. French	T.L. Burger
MI	SW> Cass	Pokagon	May 21	D. Nelson	T.L. Burger
MI	NE> Alpena	Wilson	Jun 10	D.R. McGuire	T.L. Burger
MO	W> Johnson	Holden	May 6	R. Nichols	T.L. Burger
OH	NW> Wood	Middleton	May 27	G. Bernon	R.J. Dysart
PA	C> Centre	Spring	May 15	C. Chesworth	R.J. Dysart
PA	NC> Tioga	Deerfield	Jun 3	H. Gates	R.J. Dysart
PA	SW> Washington	Mount Pleasant	May 16	M. Garra	R.J. Dysart
VA	N> Frederick	Gainesboro	May 5	V. Heyos	R.J. Dysart
VA	W> Highland	Bluegrass	May 28	H.L. Smith	R.J. Dysart
WV	NW> Wetzel	Proctor	Apr 25	A. Tustin	R.J. Dysart
WV	E> Pendleton	Moyers	May 28	H.L. Smith	T.L. Burger

AN ICHNEUMONID WASP (*Bathyplectes curculionis*) - New county records. Collected from *Hypera postica* (alfalfa weevil) larvae on alfalfa in 1980. (T.L. Burger).

State	District> County	Town or township	Collection date	Collector	Determiner
IL	NW> Carroll	Mount Carroll	May 28	S. Sanderson	T.L. Burger
IL	NE> De Kalb	Kingston	Jun 3	S. Sanderson	T.L. Burger
IL	NE> La Salle	Bruce	May 29	S. Sanderson	T.L. Burger
IL	NE> Will	Crete	Jun 4	R. Larson	T.L. Burger
IL	E> Kankakee	Aroma	May 23	S. Sanderson	T.L. Burger
IL	E> Iroquois	Papineau	May 23	S. Sanderson	T.L. Burger
IL	WSW> Green	Rockbridge	May 3	R. Larson	T.L. Burger
IL	ESE> Clark	Parker	May 16	R. Larson	T.L. Burger

State	District> County	Town or township	Collection date	Collector	Determiner
IA	NC> Hancock	Boone	May 28	R. Larson	T.L. Burger
IA	NC> Floyd	Niles	May 23	C. Carlson	T.L. Burger
IA	NE> Clayton	Jefferson	May 21	R. Larson	T.L. Burger
IA	NE> Allamakee	Franklin	May 27	R. Larson	T.L. Burger
IA	WC> Sac	Wall Lake	May 22	G. Wallwrith	T.L. Burger
IA	C> Tama	Carroll	May 15	R. Larson	T.L. Burger
IA	EC> Jones	Cass	May 23	R. Larson	T.L. Burger
IA	SE> Louisa	Concord	May 12	W. Wintersteen	T.L. Burger
MI	Upper Peninsula> Menominee	Daggett	Jun 11	R. Breyer	T.L. Burger
MI	Upper Peninsula> Delta	Wells	Jun 9	D. Pellegrini	T.L. Burger
MN	EC> Mille Lacs	Milo	May 25	H. Graeber	T.L. Burger
PA	NC> Tioga	Deerfield	Jun 3	H. Gates	R.J. Dysart
VA	W> Highland	Bluegrass	May 8	W.D. Jones	R.J. Dysart
WV	E> Pendleton	Harper	May 28	H.L. Smith	R.J. Dysart
WV	NW> Wetzel	Proctor	Apr 25	A. Tustin	R.J. Dysart
WI	NW> Bayfield	Keystone	Jun 11	H. Graeber	T.L. Burger
WI	NW> Burnett	Wood River	May 27	H. Graeber	T.L. Burger
WI	NC> Marathon	Mount Rib	Jun 4	C. Neff	T.L. Burger
WI	NE> Shawano	Richmone	May 29	H. Line	T.L. Burger
WI	C> Juneau	Lemonweir	May 27	C. Neff	T.L. Burger

ALFALFA LEAFCUTTING BEE (*Megachile rotundata*) - IDAHO - Overwintering generation still emerging because extended cold spring delayed most seed set 2-4 weeks from normal. Populations apparently will be average to above average for many growers. (N.D. Waters).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - NEVADA - Status week ending July 25 (C. Address et al.):

District> County	Species	Population (%)	Number per 0.8 sq m	Hectares	City
On rangeland:					
NE> Elko	<u>Melanoplus sanguinipes</u>	75-90	8	2,914	Spring Creek
	<u>Mixed</u>	25-10			
NE> Elko	<u>Melanoplus sanguinipes</u>	60	10	259	Pleasant Valley
	<u>Melanoplus bivittatus</u>	30			
	<u>Mixed</u>	10			
NE> Eureka	<u>Melanoplus sanguinipes</u>	75	8	2,590	Frenchie Flat
	<u>Mixed</u>	25			
W> Humboldt	<u>Melanoplus sanguinipes</u>	55	25	2,849	Paradise Valley
	<u>Mixed</u>	45			

District> County	Species	Population (%)	Number per 0.8 sq m	Hectares	City
W> Humboldt	<u>Melanoplus sanguinipes</u>	95	17	304	Paradise Valley
	<u>Oedaleonotus enigma enigma</u>	5			
W> Humboldt	<u>Melanoplus sanguinipes</u>	80-100	8-10	3,282	Eden Valley
	<u>Oedaleonotus enigma enigma</u>	10-0			
W> Humboldt	<u>Melanoplus sanguinipes</u>	80	23	546.3	Denio
	<u>Oedaleonotus enigma enigma</u>	20			
W> Humboldt	<u>Melanoplus sanguinipes</u>	100	47	243	Orovada area
W> Humboldt	<u>Melanoplus sanguinipes</u>	80-100	14-23	526.1	Kings River
	<u>Aulocara ellioti</u>	20-0			
W> Humboldt	<u>Melanoplus sanguinipes</u>	80	14	5,957.0	Grass Valley
	<u>Oedaleonotus enigma enigma</u>	20			
W> Pershing	<u>Melanoplus sanguinipes</u>	100	10-20	607.0	Cosgrave
On crested wheat:					
W> Humboldt	<u>Melanoplus sanguinipes</u>	60-75			Pine Range
	<u>Oedaleonotus enigma enigma</u>	10-15	16-18	2,602	Lower east slopes
	<u>Aulocara ellioti</u>	30-10			
On cropland:					
NE> Eureka	<u>Melanoplus sanguinipes</u>	90	24	80.9	Crescent Valley
	Mixed	10			
W> Humboldt	<u>Melanoplus sanguinipes</u>	88	5-20	101	Dutch Flat
	Mixed	12			
W> Humboldt	<u>Melanoplus sanguinipes</u>	96	12-15	101	Eden Valley
	Mixed	4			
W> Humboldt	<u>Melanoplus sanguinipes</u>	90-100	10	590.8	Pumpnickel Valley
	Mixed	10-0			
W> Humboldt	<u>Melanoplus sanguinipes</u>	100	20-30	168	Bottle Creek area
W> Pershing	<u>Melanoplus sanguinipes</u>	100	10-20	1,012	Cosgrave
S> Mineral	<u>Melanoplus sanguinipes</u>	100	25	60.7	Whisky Flat

TEXAS - Grasshoppers continued to be problem on rangeland from north-central area westward and in Panhandle area week ending August 1. (J.A. Jackman).
 NORTH DAKOTA - Adult survey of mainly Melanoplus bivittatus, Melanoplus femurrubrum with Melanoplus packardii, Melanoplus sanguinipes, Melanoplus differentialis, and Melanoplus dawsoni also present. Development ranged from 3rd instar to adult, July 22. (C.G. Scholl).

District> County	Average per 0.8 sq m		Range per 0.8 sq m	
	Field	Margin	Field	Margin
EC> Cass	1.4	2.5	0-7	0-14
EC> Traill	1.6	2.1	0-7	0-9
SE> Dickey	4.6	7.2	0-15	-1-24
SE> La Moure	2.2	4.7	0-6	0-23
SE> Ransom	2.2	3.5	0-15	0-30
SE> Richland	1.2	3.7	0-6	0-12
SE> Sargent	1.9	3.9	0-10	-1-6

JAPANESE BEETLE (Popillia japonica) - KENTUCKY - District> County= adults on corn week ending August 1: Bluegrass> Bourbon, Clark, and Madison= heavy in several fields, several thousand hectares treated in area. (P.E. Sloderbeck).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton: SW> Yuma= larvae 2-5% with 56% at Parker= C> Maricopa= larvae 4-6% and adults 0-14 per pheromone trap per day, and SE> Graham= 0-14%. (L. Blackledge et al.).

RANGE CATERPILLAR (Hemileuca oliviae) - NEW MEXICO - District> County= larval status week ending August 1: NE> Colfax= moved from rangeland into alfalfa and young wheat in Cimarron area. (Fernandez).

DETECTION

NEW STATE RECORDS

INSECTS

A BRACONID WASP (Microctonus aethiopoides) - ILLINOIS - Edwards, INDIANA - Monroe, IOWA - Louisa, KENTUCKY - Oldham, MICHIGAN - Delta, MISSOURI - Schuyler, and WISCONSIN - Trempealeau. (p. 564-565).

A BRACONID WASP (Microctonus colesi) - KENTUCKY - Campbell and MICHIGAN - Ionia. (p. 565).

NEW COUNTY RECORDS

DISEASES

GOSS'S WILT (Corynebacterium nebraskense) - IOWA - Buena Vista and Jones. (p. 554).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - Drew, INDIANA - Perry, Martin, Pike, and Jennings, MINNESOTA - Ramsey, MISSOURI - Perry, and WISCONSIN - Jackson, Price, and Grant. (p. 562).

INSECTS

AN ANT (Lasius umbratus) - UTAH - District> County= collection data: C> Sanpete= taken at 2,280 m elevation at Ephraim Canyon, July 30, 1978, by J.B. Knight, determined by G.C. Wheeler. (G.F. Knowlton).

AN ANT (Myrmica lobicornis fracticornis) - UTAH - District> County= collection data: C> Sanpete= taken at 2,130 m in Ephraim Canyon, May 27, 1980, by J.B. Knight, determined by G.C. Wheeler. (G.F. Knowlton).

A BRACONID WASP (Microctonus aethiopoides) - See pages 564 and 565 for ILLINOIS, INDIANA, IOWA, KENTUCKY, MICHIGAN, MISSOURI, OHIO, PENNSYLVANIA, VIRGINIA, WEST VIRGINIA, and WISCONSIN.

A BRACONID WASP (Microctonus colesi) - See page 565 for KENTUCKY, OHIO, VIRGINIA, and WEST VIRGINIA.

A DIASPIDID SCALE (Abgrallaspis cyanophylli) - FLORIDA - Calhoun. (p. 561).

A DIASPIDID SCALE (Aonidomytilus solidaginis) - FLORIDA - Hernando and Volusia. (p. 561). Additional new records. District> County= collection data from Baccharis glomeruliflora plant: C> Citrus= noted in wild near Crystal River, January 31, 1980, by R. Phillips and A. Bentley, determined by A.B. Hamon. (R. Phillips, A. Bentley).

A DIASPIDID SCALE (Aspidiella sacchari) - FLORIDA - Lake. (p. 556).

A DIASPIDID SCALE (Carulaspis minima) - FLORIDA - Hernando. (p. 561).

A DIASPIDID SCALE (Chionaspis heterophyllae) - FLORIDA - Brevard. (p. 563).

A DIASPIDID SCALE (Chionaspis nyssae) - FLORIDA - Volusia (p.562) and Suwannee (p. 563).

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - Nassau and Clay. (p. 563).

A DIASPIDID SCALE (Gymnaspis aechmeae) - FLORIDA - Flagler. (p. 561).

A DIASPIDID SCALE (Hemiberlesia diffinis) - FLORIDA - Citrus. (p. 563).

A DIASPIDID SCALE (Hemiberlesia palmae) - FLORIDA - Monroe. (p. 562).

A DIASPIDID SCALE (Kuwanaspis pseudoleucaspis) - FLORIDA - Citrus. (p. 562).

A DIASPIDID SCALE (Odonaspis penicillata) - FLORIDA - Citrus. (p. 557).

A DIASPIDID SCALE (Pinnaspis strachani) - FLORIDA - Gilchrist. (p. 562).

A DIASPIDID SCALE (Quadraspidiotus taxodii) - FLORIDA - Baker, Hernando, and Putnam. (p. 563).

A DIASPIDID SCALE (Rhizaspidiotus dearnessi) - FLORIDA - Volusia. (p. 562).

A DIASPIDID SCALE (Velataspis dentata) - FLORIDA - Bradford. (p. 563).

A EULOPHID WASP (Tetrastichus incertus) - OHIO - Wood. (p. 565).

EUROPEAN CORN BORER (Ostrinia nubilalis) - ALABAMA - Clarke and TENNESSEE, Henderson. (p. 554).

AN ICHNEUMONID WASP (Bathyplectes anurus) - See page 565 for INDIANA, KENTUCKY, MICHIGAN, MISSOURI, OHIO, PENNSYLVANIA, VIRGINIA, AND WEST VIRGINIA.

AN ICHNEUMONID WASP (Bathyplectes curculionis) - See pages 565-566 for ILLINOIS, IOWA, MICHIGAN, MINNESOTA, PENNSYLVANIA, VIRGINIA, WEST VIRGINIA, and WISCONSIN.

MEXICAN BEAN BEETLE (Epilachna varivestis) - FLORIDA - Hernando. (p. 560).

POTATO STEM BORER (Hydroecia micacea) - NEW YORK - Dutchess, Montgomery, and Columbia. (p. 554).

ROSE SCALE (Aulacaspis rosae) - FLORIDA - Levy and Putnam. (p. 561).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NORTH DAKOTA - Oliver. (p. 563).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - KENTUCKY - Union. (p. 555).

CORRECTIONS

CPPR 5(26):494 - Trap collections - CALIFORNIA - Bellota 7/13 - Delete figure for ECB column. European corn borer does not occur in California.

20

TRAP COLLECTIONS																								
°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw					
FLORIDA																								

TRAP COLLECTIONS																			
°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
WISCONSIN																			
			B	18	-	1	0			4								0	
			B	-	-	-	-			75								-	
		Lancaster 8/6-12																	
		Mazomanie 8/6-12																	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm		

METRIC CONVERSION

1 cm	= 0.393701 in
1 m	= 3.28084 ft = 1.09361 yd
1 km	= 0.621371 mi
1 sq cm	= 0.155000 sq in
1 sq m	= 10.7639 sq ft = 1.19599 sq yd
1 ha	= 2.47104 acres
1 sq km	= 0.386101 sq mi
1 kg	= 2.20462 lb
1 t (metric ton)	= 1.10231 short ton
1 kg/ha	= 0.892183 lb/acre
1 t/ha	= 0.446091 ton/acre



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Cooperative Plant Pest Report

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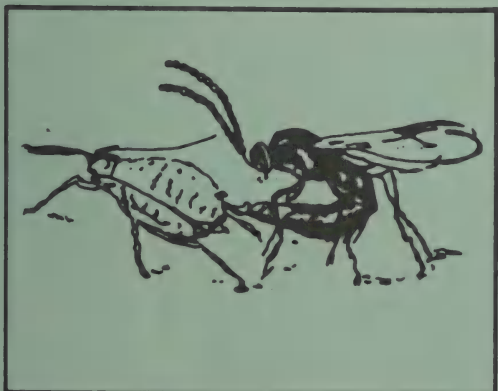
August 29. 1980

SEP 25 '80

Vol. 5

No. 31

PROCUREMENT SECTION
CURRENT SERIAL RECORDS



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

LOOSE SMUT increased on winter wheat and oats in Wisconsin in 1980. (p. 578).

VELVETBEAN CATERPILLAR serious on soybeans in northeastern area of Florida. (p. 581).

Problems with LESSER CORNSTALK BORER and FALL ARMYWORM on peanuts in north-western area of Florida. (p. 581-582).

CORN EARWORM adults 400+ per night in east-central area of Virginia. (p. 589).

Detection

New State records include a MIRID BUG in Virginia (p. 581) and another in New Jersey (p. 585).

For new county records see page 588.

Special Report

Gypsy Moth Quarantine. Map. Centerfold.

Reports in this issue are for the week ending August 22 unless otherwise indicated.

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Gypsy Moth Quarantine. Map. Centerfold.	

CORN, SORGHUM, SUGARCANE

DISEASES

COMMON SMUT (*Ustilago maydis*) - KANSAS - Most common corn disease in east-central area. Many corn fields cut for silage in east-central and southeastern areas. Survey on corn (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage
EC> Morris	trace	light	soft dough
EC> Lyon	trace	light	hard dough
EC> Osage	trace	light	hard dough
EC> Franklin	trace	light	soft dough to hard dough
EC> Miami	trace to 1	light	soft dough to hard dough
EC> Johnson	trace	light	hard dough
EC> Douglas	trace to 1	light	soft dough to hard dough
C> Dickinson	trace	light	soft dough to hard dough
C> Marion	trace	light	hard dough

SOUTH DAKOTA - Area> common smut prevalence on dent corn [blister to soft dough] July 28 to August 1: NE, EC, and SE> trace. (V.L. Jons). NORTH DAKOTA - Area> prevalence on dent corn [blister to soft dough] August 4-14: EC and SE> trace. (V.L. Jons).

COMMON MAIZE RUST (*Puccinia sorghi*) - SOUTH DAKOTA - Area> prevalence on dent corn [blister to soft dough] July 28 to August 1: NE, EC, and SE> trace to light. (V.L. Jons). NORTH DAKOTA - Area> prevalence on dent corn [blister to soft dough] August 4-14: EC and SE> trace. (V.L. Jons).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - District> County= prevalence on sorghum [soft dough]: EC> Franklin= trace in 1 field. (T. Sim, IV).

HOLCUS SPOT (*Pseudomonas syringae*) - KANSAS - District> County [host stage if given]= status on sorghum: EC> Morris [flower] and Johnson [hard dough]= trace in 1 field each, and Geary, Chase, Lyon, Franklin, Miami, Douglas, Wabaunsee, C> Dickinson, and Marion= not seen. (T. Sim, IV).

SORGHUM LEAF STREAK (*Xanthomonas holcicola*) - KANSAS - District> County [host stage if given]= status on sorghum: EC> Osage [soft dough] and Franklin [flower]= trace in 1 field each, and Morris, Lyon, Miami, Johnson, Douglas, Wabaunsee, Chase, C> Marion, and Dickinson= not seen. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= status on sorghum [host stage if given]: C> Marion= red leaf trace [boot] in 1 field and Dickinson, EC> Geary, Morris, Chase, Lyon, Osage, Franklin, Miami, Johnson, Douglas, and Wabaunsee= not seen. (T. Sim, IV). SOUTH DAKOTA - District> County= status on corn August 4: EC> Brookings= detected in late-planted plot at Brookings. (V.L. Jons). WISCONSIN - District> County= status week ending August 8: SE> Walworth, SC> Jefferson, Rock, Dane, and EC> Sheboygan= in several fields of late-planted sweet corn, and SC> Rock= in few plants of field corn. (O.L. Lovett).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - WISCONSIN - District> County= status on corn week ending August 8: SC, C, and W areas> egg laying increased; SC> Rock, SW> Sauk, and C> Adams= threatening egg counts noted; SC> Rock, SW> Sauk,

C> Adams, and Waushara= European corn borer egg laying increased early in week with eggs on 12% of plants; SE> Walworth, Washington, SC> Jefferson, Dodge, Dane, Columbia, EC> Fond du Lac, and C> Green Lake= eggs on less than 5% of plants August 6; E area> adult catches increased night of August 5; SE> Walworth= eggs hatched in southern area; Central Sands area> adults heavy on roadside grasses, foxtail, Proso millet, dense soybeans, some potato fields, and few snap bean fields. Controls started in advanced southern sites.

Wisconsin - European corn borer status week ending August 15: C and S areas> adult activities and egg laying continued; WC and NW areas> adult activity and egg laying approached economic level; S and C areas> heavy adult catches at several blacklight trapping stations; and E and NW areas> catches increased; Central Sands> eggs on 24% of plants in some fields; WC> Eau Claire and St. Croix= eggs on about 5% of sweet corn plants, some evidence that heavy rain last period may have destroyed or damaged many adults in southern area. (O.L. Lovett).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - TEXAS - Area> status on corn week ending August 8: Southern Plains> eggs and larvae increased, adults decreased. (J.A. Jackman).

ARMYWORM (*Pseudaletia unipuncta*) - WISCONSIN - Infestations damaged small percentages of grain and corn fields. Most larvae pupated in southern one-third of State. Infestations continued very spotty with damage in every sector of State. Populations in southern counties collapsed due to pupation, parasitism, predation, and sometimes, chemical controls. Infestations in corn directly related to poor herbicide controls allowing foxtail or other grasses to thrive. In some cases armyworms moved into corn from adjacent oats, harvested peas, or from infested fence rows. Problems in fewer than 1 of 100 fields. (O.L. Lovett).

CORN ROOTWORMS (*Diabrotica* spp.) - INDIANA - New county record for WESTERN CORN ROOTWORM (*Diabrotica virgifera*). District> County= collection data from grain corn: SC> Brown= adults collected 1.1 km east of Bean Blossom, July 18, 1980, collected and determined by D.L. Matthew. (R. Meyer). WISCONSIN - *Diabrotica* spp. very heavy on younger corn, populations at treatment threshold in many fields. Many growers started controls in sweet corn. Soil treatments this spring ineffective. Area> adults on corn week ending August 8: 1-8 per plant in most fields, 15 per plant in few fields. Much of field corn well silked and out of danger. Averaged 6 per plant in most sweet corn fields, many fields just beginning to silk. Adults 6 per plant in whorl in some very young sweet corn fields with extensive leaf feeding by western corn rootworm. Mating common and many females swollen with eggs. WC district> parts of La Crosse County= populations heavy. Controls started in advanced southern sites. (O.L. Lovett).

CORN LEAF APHID (*Rhopalosiphum maidis*) - WISCONSIN - Area> status on young sweet corn [whorls] week ending August 8: Southern counties> heavy. (O.L. Lovett).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - WISCONSIN - Prevalence and severity on winter wheat remained same as in 1979. Prevalence (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
SC> Rock	78	5	5
SC> Columbia	34	2	5
SC> Dodge	44	3	4
SE> Washington	57	3	5
EC> Sheboygan	37	4	5
Average	<u>50</u>	<u>3</u>	

OAT CROWN RUST (*Puccinia coronata* f.sp. *avenae*) - WISCONSIN - Prevalence decreased on oats. Prevalence (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
NC> Marathon	13	1	5
NC> Clark	3	1	5
NC> Taylor	1	1	3
EC> Manitowoc	45	5	11
EC> Fond du Lac	27	5	5
EC> Brown	82	6	4
EC> Kewaunee	22	10	3
EC> Outagamie	0	0	2
EC> Door	27	3	2
EC> Sheboygan	38	5	2
SC> Dodge	69	8	4
SC> Dane	77	13	5
NW> Chippewa	3	1	4
NE> Shawano	32	1	3
WC> Dunn	4	1	3
C> Green Lake	65	3	2
Average	<u>32</u>	<u>4</u>	

SEPTORIA COMPLEX (*Septoria* spp.) - WISCONSIN - Prevalence (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
On winter wheat:			
SC> Rock	0	0	5
SC> Columbia	33	13	5
SC> Dodge	27	8	4
SE> Washington	19	7	5
EC> Sheboygan	49	8	5
Average	<u>26</u>	<u>7</u>	

On oats:

NC> Marathon	15	2	5
NC> Clark	0	0	5
NC> Taylor	44	2	3
EC> Manitowoc	18	3	11
EC> Fond du Lac	0	0	5

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
EC> Brown	15	10	4
EC> Kewaunee	11	6	3
EC> Outagamie	0	0	2
EC> Door	43	6	2
EC> Sheboygan	0	0	2
SC> Dodge	0	0	4
SC> Dane	0	0	5
NW> Chippewa	0	0	4
NE> Shawano	0	0	3
WC> Dunn	0	0	3
C> Green Lake	0	0	2
Average	<u>9</u>	<u>2</u>	

LOOSE SMUT (*Ustilago nuda*) - WISCONSIN - Prevalence on winter wheat increased from 1% in 1979 to 6% in 1980. Overall averages on oats for 1980 greater than in 1979, especially heavy in EC district> Fond du Lac County with 49% and 23% in 2 fields. Prevalence (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
On winter wheat:			
SC> Rock	2	100	5
SC> Columbia	0	0	5
SC> Dodge	22	98	4
SE> Washington	0	0	5
EC> Sheboygan	5	100	5
Average	<u>6</u>	<u>60</u>	

On oats:

NC> Marathon	0	0	5
NC> Clark	2	100	5
NC> Taylor	2	20	3
EC> Manitowoc	8	100	11
EC> Fond du Lac	20	100	5
EC> Brown	3	75	4
EC> Kewaunee	1	68	3
EC> Outagamie	2	100	2
EC> Door	4	80	2
EC> Sheboygan	7	100	2
SC> Dodge	5	100	4
SC> Dane	5	79	5
NW> Chippewa	2	100	4
NE> Shawano	2	100	3
WC> Dunn	0	0	3
C> Green Lake	7	99	2
Average	<u>4</u>	<u>76</u>	

LEAF BLOTCHES (*Helminthosporium* spp.) - WISCONSIN - Prevalence on oats (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
NC> Marathon	20	1	5
NC> Clark	0	0	5
NC> Taylor	9	1	3
EC> Manitowoc	56	5	11
EC> Fond du Lac	3	7	5
EC> Brown	100	19	4
EC> Kewaunee	89	10	2
EC> Outagamie	3	10	2
EC> Door	95	7	2
EC> Sheboygan	22	7	2
SC> Dodge	0	0	4
SC> Dane	10	9	5
NW> Chippewa	0	0	4
NE> Shawano	46	8	3
WC> Dunn	0	0	3
C> Green Lake	6	8	2
Average	29	6	

HALO BLIGHT (*Pseudomonas coronafaciens*) - WISCONSIN - Prevalence on oats (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
NC> Marathon	0	0	5
NC> Clark	0	0	5
NC> Taylor	0	0	3
EC> Manitowoc	100	19	11
EC> Fond du Lac	44	7	5
EC> Brown	0	0	4
EC> Kewaunee	0	0	3
EC> Outagamie	0	0	2
EC> Door	0	0	2
EC> Sheboygan	100	5	2
SC> Dodge	0	0	4
SC> Dane	0	0	5
NW> Chippewa	0	0	4
NE> Shawano	0	0	3
WC> Dunn	0	0	3
C> Green Lake	0	0	2
Average	15	2	

BARLEY YELLOW DWARF VIRUS - WISCONSIN - Prevalence of red leaf on oats (100 plants per field) and severity (estimate of plant damage represented by field average) for 1980 (O.L. Lovett):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
NC> Marathon	1	20	5
NC> Clark	0	0	5
NC> Taylor	0	0	3
EC> Manitowoc	0	0	11
EC> Fond du Lac	0	0	5

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Number of fields</u>
EC> Brown	0	0	4
EC> Kewaunee	0	0	3
EC> Outagamie	57	13	2
EC> Door	0	0	2
EC> Sheboygan	0	0	2
SC> Dodge	0	0	4
SC> Dane	8	11	5
NW> Chippewa	0	0	4
NE> Shawano	52	6	3
WC> Dunn	0	0	3
C> Green Lake	34	5	2
Average	10	3	

TURF, PASTURES, RANGELAND

INSECTS

A DIASPIDID SCALE (*Odonaspis ruthae*) - FLORIDA - New county record. District> County= collection data from Cynodon dactylon (bermudagrass) plots: C> Hernando= adults infested stems at Spring Lake, July 29, 1980, collected by R. Phillips, determined by A.B. Hamon. Grass established for some time. (R. Phillips).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Continued most common alfalfa disease in fields surveyed in parts of central and east-central areas. Severity indicates estimated percent leaf drop (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host height (cm)</u>
EC> Morris	trace to 100	trace	46
EC> Chase	trace to 20	0 to trace	36-53
C> Dickinson	trace	trace	38
C> Marion	trace to 30	0 to trace	30-58

INSECTS

ALFALFA WEEVIL (*Hypera postica*) - MINNESOTA - New county records. District> County= collection data from Medicago sativa (alfalfa): NC> Hubbard= adult collected near Park Rapids, Hubbard Township, May 22, 1980, by R.J. Thiewes; EC> Mille Lacs= larvae and adults collected near Milaca, Milaca Township, May 19, by H. Graeber; and NW> Polk= adult collected near Crookston, Crookston Township, June 2, by H. Graeber. All determined by T.L. Burger. (D.D. Sreenivasam).

ALFALFA BLOTCH LEAFMINER (*Agromyza frontella*) - VIRGINIA - New county record. District> County= collection data from Medicago sativa (alfalfa): W> Alleghany= larvae collected from leaves near Richpatch, July 31, 1980, by W.D. Jones, determined by B. Hendrickson. (G.L. Clement).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*) - SOUTH DAKOTA - District> County= prevalence on soybeans July 29: EC> Minnehaha= 10% in 1 field. (V.L. Jons).

SOYBEAN BROWN SPOT (*Septoria glycines*) - KANSAS - District> County= prevalence on soybeans [seed development]: EC> Franklin= trace in 2 fields. (T. Sim, IV). SOUTH DAKOTA - Area> prevalence on soybeans [flower to seed development] July 28 to August 1: NE, EC, and SE> trace. (V.L. Jons). NORTH DAKOTA - Area> prevalence on soybeans [flower to pod 2 cm] August 4-14: EC and SE> trace. (V.L. Jons).

AN ALTERNARIA LEAF SPOT (*Alternaria* sp.) - KANSAS - District> County= prevalence on soybeans [full bloom]: C> Marion= trace in 1 field. (T. Sim, IV).

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - SOUTH DAKOTA - Area> prevalence on soybeans [flower to seed development] July 28 to August 1: NE, EC, and SE> light to moderate. NORTH DAKOTA - Area> prevalence on soybeans [flower to pod 2 cm] August 4-14: EC and SE> light to moderate. (V.L. Jons).

INSECTS

CORN EARWORM (*Heliothis zea*) - ARKANSAS - Area> status on soybeans week ending August 15: Statewide> Larvae up to 15 per 0.3 row m in some fields with more fields infested. (G. Barnes).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - District> County= status on soybeans: NW> Jackson= started to show up about 3 weeks later than in NE> Madison County; NW> Jackson= early instar larvae heavy 6-8 km south of Oakdale, no *Nomuraea rileyi* (an insect fungus) there as of August 12, NE> Madison= problem serious, 90% of fields needed to be treated, populations reached threshold levels August 11. (R.K. Sprengel).

SOYBEAN LOOPER (*Pseudoplusia includens*) - FLORIDA - District> County= status on soybeans: NE> Madison= populations still below threshold, season began August 11. *Nomuraea rileyi* (an insect fungus) increased, should help in control of larger soybean looper brood expected about September 1. (R.K. Sprengel).

SOUTHERN GREEN STINK BUG (*Nezara viridula*) - FLORIDA - Counts 1 per 0.3 row m of soybeans August 11, infested pods, treatments required in oldest plantings where pods formed. (R.K. Sprengel).

A MIRID BUG (*Phytocoris nigricollis*) - VIRGINIA - New State record. District> County= collection data from *Glycine max* (soybean): SE> Prince George= 1 adult female collected on farm, city not given, September 19, 1979, by C. Darden, determined by E.R. Hoebeke, and confirmed by T.J. Henry, Jr. (E.R. Hoebeke).

PEANUTS

INSECTS

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - FLORIDA - District> County= status on peanuts week ending August 14: NW> Jackson= spotty, problem mostly where no rain in last 3 or 4 weeks, infested 70-80% of plants in field lacking

rain 3-4 weeks (R.K. Sprenkel); Santa Rosa= larvae infested pods, most plants forming pods, 100% of inspected sites infested, controls very difficult (M. Donahoe, R.K. Sprenkel).

FALL ARMYWORM (*Spodoptera frugiperda*) - FLORIDA - District> County= status on peanuts: NW> Santa Rosa= problem serious, 90% of fields needed at least 1 treatment by August 7 (M. Donahoe, R.K. Sprenkel), and Jackson= 50% of fields treated by August 12, control erratic, often very difficult to control especially if larvae large. (R.K. Sprenkel).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Counts light in all cotton areas. District> County= status on cotton week ending August 8: Lower Valley> Cameron= heaviest damage reached 66 punctured squares per 100 plants. (J.A. Jackman).

BOLLWORMS (*Heliothis* spp.) - NEW MEXICO - District> County= BOLLWORM (*Heliothis zea*) status on cotton week ending August 8: SE> Chaves and Eddy= some populations heavy, controls applied. (B. Campbell). TEXAS - Area> status of *Heliothis zea* and TOBACCO BUDWORM (*Heliothis virescens*) on cotton week ending August 8: South Plains, Rolling Plains, and around San Angelo> populations increased rapidly. Eggs heavy and larvae damaging many fields. (J.A. Jackman).

POTATOES, TOMATOES, PEPPERS

DISEASES

TOMATO/POTATO EARLY BLIGHT (*Alternaria solani*) - WISCONSIN - Area> status on potatoes week ending August 8: Central Sands intensity continued to increase; week ending August 15: NE> Langlade= developing in Antigo area. (O.L. Lovett).

A WHITE MOLD (*Sclerotinia sclerotiorum*) - WISCONSIN - Area> status on potatoes week ending August 8: Central Sands> appeared in widely scattered fields. (O. L. Lovett).

BEANS AND PEAS

DISEASES

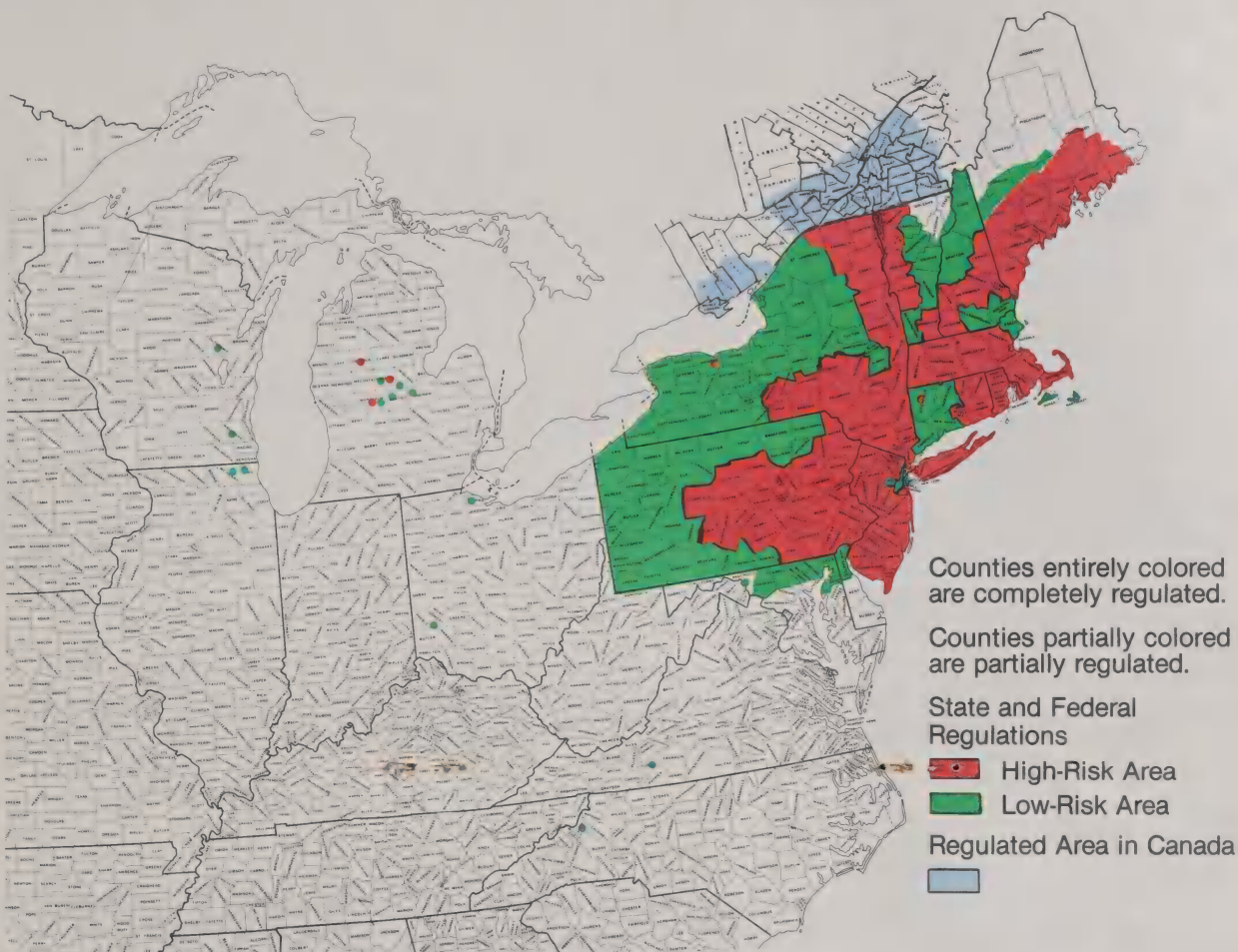
BEAN BROWN SPOT BLIGHT (*Pseudomonas syringae*) - WISCONSIN - District> County= prevalence on snap beans week ending August 15: WC> St. Croix= severe. Spread of disease increased due to recent severe storms. (O.L. Lovett).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - WISCONSIN - District> County= trap catches in orchards July 22 to August 6: SE> Racine= 1.3, Waukesha= 25, SW> Richland= 3, Sauk= 24, SC> Dane= 1 in 1 orchard and 9 in another, EC> Fond du Lac= 0.3, Manitowoc= 18, C> Wood= 0, and NW> Barron= 1, 0, and 0 in 3 orchards; July 29 to August 12: SW> Crawford= 1.2 and 0.6, SC> Dane= 0 in 1 orchard and 9 in another, SE> Racine= 7.2, Waukesha= 30, EC> Fond du Lac= 1.4, Manitowoc= 5, C> Wood= 18, NC> Lincoln= 2, and NW> Barron= 0 in 2 orchards. (O.L. Lovett).

Gypsy Moth Quarantines



In the United States consult your state or federal plant protection inspector or your county agent, and in Canada your nearest plant products and quarantine division office, for assistance regarding exact areas under regulation and requirements for moving regulated articles. For detailed information consult 7 CFR 301.45 for quarantine and regulations.

In the U.S. restrictions are imposed on movement of regulated articles from a regulated area as follows:

1. From red into or through white.
2. From green into or through white.*

*If required by an authorized inspector.

In Canada, contact plant products and quarantine division officials for information on imposed restrictions.

See reverse side for list of Regulated Articles

U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine, and Canada Department of Agriculture cooperating with affected states.

Revised March, 1980
Slightly revised July, 1980

**The Following Regulated Articles Moved from
High-Risk Areas (Red)
Require a Certificate or Permit Year-Round Except as Indicated:**

1. Trees with roots, and shrubs with roots and persistent woody stems, except if greenhouse grown throughout the year.
2. Logs and pulpwood, except if moved to a mill operating under a compliance agreement.
3. Firewood.
4. Mobile homes and associated equipment.
5. Recreational vehicles and associated equipment, moving from hazardous recreational vehicle sites listed in §301.45-2c.
6. Any other products, articles (e.g., outdoor household articles), or means of conveyance, of any character whatsoever, when it is determined by an inspector that any life stage of gypsy moth is in proximity to such articles and the articles present a high-risk of artificial spread of gypsy moth infestations and the person in possession thereof has been so notified.

WASHINGTON - Codling moth lightest for season. District> County= average per trap August 5: NE> Spokane= 2.6 in city and 0.4 in orchards at Green Bluff. (B. Proce, G. Kupferman).

APPLE MAGGOT (*Rhagoletis pomonella*) - WISCONSIN - Catches increased week ending August 1, threatening some later maturing apples. District> County= status: EC> Door= heavy week ending August 1; SC> Dane= intense emergence at second trapping site after rains last period, 11 adults caught in 2 days, week ending August 15. Trap catches in orchards July 22 to August 6: SE> Racine= 0.16, Waukesha= 3, SW> Richland= 2, Sauk= 4, SC> Dane= 3 in 1 orchard and 10 in another, EC> Fond du Lac= 0, Manitowoc= 1, C> Wood= 5, and NW> Barron= 2, 0, and 5 in 3 orchards; July 29 to August 12: SW> Crawford= 0, SC> Dane= 0 in 1 orchard and 13 in another, SE> Racine= 5.4, Waukesha= 2, EC> Fond du Lac= 0, Manitowoc= 1, C> Wood= 0, NC> Lincoln= 6, and NW> Barron= 2 in 1 orchard and 0 in another. (O.L. Lovett).

WHITE APPLE LEAFHOPPER (*Typhlocyba pomaria*) - WASHINGTON - District> County= status on apples July 28 to August 1: C> Yakima= first nymphal instars on trees at Moxee City and Gleeed, and Upper Valley area> second generation appeared 18 days later than in 1979. (A. Gregorich, G. Amos).

PEAR SAWFLY (*Caliroa cerasi*) - WISCONSIN - District> County= status on pears week ending August 8: EC> Sheboygan= skeletonizing heavy. (O.L. Lovett).

WALNUT HUSK FLY (*Rhagoletis completa*) - WASHINGTON - District> County= trap counts July 30: SE> Asotin= adults 20-30 daily in traps at Clarkston. (R. Nills).

ORNAMENTALS

INSECTS

A DIASPIDID SCALE (*Comstockiella sabalis*) - FLORIDA - New county record. District> County= collection data from Sabal palmetto (cabbage palmetto) tree: S> Charlotte= adults on leaves and blooms along road near Punta Gorda, August 5, 1980, collected by E. Smith and W.J. Shirley, and determined by A.B. Hamon. (E. Smith, W.J. Shirley).

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

AN INSECT FUNGUS (*Entomophthora phytonomi*) - WEST VIRGINIA - New county records District> County= collection data from Hypera postica (alfalfa weevil) larvae on alfalfa: E> Mineral= at Fort Ashby, May 21, 1980; NW> Monongalia= at Morgantown, May 27; Barbour= at Kasson, May 28; E> Randolph= at Mill Creek, May 28; NW> Ohio= at Clinton, May 29; and Marshall= at Sherrard, May 29. All collected and determined by P.D. VanBuskirk. (G.L. Clement).

INSECTS

A BRACONID WASP (*Microctonus aethiopoides*) - WISCONSIN - New county records. District> County= collection data from Hypera postica (alfalfa weevil) adults on alfalfa: EC> Fond du Lac= at Ripon, May 16, 1980; SW> Iowa= Dodgeville, May 21; and SC> Jefferson= at Aztalan, May 22, all 3 collected by J. Bedford; and C> Juneau= at Lemonweir, May 19, by C. Neff. All determined by T.L. Burger. (T.L. Burger).

A BRACONID WASP (Microctonus colesi) - OHIO - New county record. District> County= collection data from Hypera postica (alfalfa weevil) adults on alfalfa: NE> Stark= collected at Bethlehem, June 5, 1980, by G. Bernon, and determined by W.H. Day. (T.L. Burger).

AN ICHNEUMONID WASP (Lemophagus curtus) - VIRGINIA - New county record. District> County= collection data from Oulema melanopus (cereal leaf beetle) larvae on oats: C> Appomattox= parasitism 3% in Southside Magisterial District, May 7, 1980, collected by J. Smith, and determined by V.E. Montgomery. (T.L. Burger). WEST VIRGINIA - New county record. District> County= collection data from Oulema melanopus (cereal leaf beetle) larvae on wheat: E> Greenbrier= parasitism 2% in Lewisburg Magisterial District, May 28, 1980, collected by E. Bostic, and determined by V.E. Montgomery. (T.L. Burger).

AN ICHNEUMONID WASP (Diaparsis temporalis) - New county records. PENNSYLVANIA - District> County= collection data from Oulema melanopus (cereal leaf beetle) larvae on wheat: SE> Montgomery= parasitism 25% at Hanover, June 13, 1980, collected by J. Way, and determined by V.E. Montgomery. (T.L. Burger). NEW JERSEY - District> County= collection data from Oulema melanopus (cereal leaf beetle) larvae on wheat: C> Mercer= parasitism 7% at Hopewell, May 22, 1980, collected by C. Scheirer, and determined by V.E. Montgomery. (T.L. Burger).

AN ICHNEUMONID WASP (Pimpla disparis) - WISCONSIN - District> County= adult status week ending August 15: SE> Waukesha= 138 released at Oconomowoc July 26. Gypsy moth is one host. (O.L. Lovett).

A EULOPHID WASP (Tetrastichus julis) - New county records. Collected from Oulema melanopus (cereal leaf beetle) larvae in 1980. Determined by V.E. Montgomery. (T.L. Burger).

State	District> County	Township or other	Collection date	Parasi- tism (%)	Host	Collector
KY	N> Grant Bluegrass> Mason	near Crittenden near Mays Lick	May 30 May 29	44 26	wheat barley	T. Ramsey T. Ramsey
MD	S> Anne Arundel NC> Baltimore	near Gambrills near Jackson- ville	May 26 Jun 3	33 10	wheat wheat	C. Staines S. Malan
MI	NE> Presque Isle	Posen	Jun 25	91	oats	R. Long
NJ	N> Somerset	Bernardsville	Jun 9	32	oats	M. Ringinary
VA	C> Bedford	near Bedford	May 16	1 & 9	wheat (2 fields)	R. White- scarver
W VA	C> Hanover E> Jefferson	near Rockville Shepherdstown Magisterial District	May 16 May 29	2 2 & 2	wheat wheat (2 fields)	J. Etheredge S. Washburn
	SW> Mercer	East River Magisterial District	May 30	57	wheat	E. Bostic
WI	SC> Jefferson	Palmyra	Jun 4	20, 33, & 66	oats (3 fields)	J. Nara
	SE> Kenosha	Wheatland	Jun 6	25	oats	K. Winston
	SE> Racine	Burlington	Jun 6	50 & 100	oats (2 fields)	K. Winston
	SE> Washington	West Bend	Jun 9	70	oats	S. Saad

A MIRID BUG (Deraeocoris ruber) - NEW JERSEY - New State record. District> County= collection data: N> Essex= 1 adult female of this predator on eggpla (Solanum melongena) in garden at Newark, July 13, 1979, by R. Scott, determi by E.R. Hoebeke. (E.R. Hoebeke).

SPIDER MITE DESTROYER (Stethorus picipes) - WASHINGTON - District> County= larvae on apples week of August 12: C> Yakima= first sighting on trees since ash fallout May 18. (A. Gregorich).

A PHYTOSEIID MITE (Metaseiulus occidentalis) - WASHINGTON - District> County= all stages on apples August 1: C> Yakima= first upper valley sighting on trees at Glead since ash fallout May 18. (A. Gregorich).

FEDERAL AND STATE PROGRAMS

DISEASES

OAT STEM RUST (Puccinia graminis f.sp. avenae) - WISCONSIN - District> County= prevalence (100 plants per field)/severity (estimate of plant damage represented by field average) on oats surveyed for 1980: NC> Marathon, Clark, Taylor, WC> Dunn, EC> Manitowoc, Fond du Lac, Brown, Kewaunee, Outagamie, Door, Sheboygan, SC> Dodge, Dane, NW> Chippewa, NE> Shawano, and C> Green Lake= 0%/0%;averaged 0%/0% in 63 fields. (O.L. Lovett).

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) - WISCONSIN - Prevalence (100 plants per field) and severity (estimate of plant damage represented by field average) on winter wheat for 1980 (O.L. Lovett):

District> County	Prevalence (%)	Severity (%)	Number of fields
SC> Rock	0	0	5
SC> Columbia	5	4	5
SC> Dodge	0	0	4
SE> Washington	0	0	5
EC> Sheboygan	0	0	5
Average	I	I	

For other rusts on small grains see p. 576.

INSECTS

GRASSHOPPERS - NEW MEXICO - District> County= status week ending August 8: NW> Bernalillo= extensive damage, movement from rangeland next to crops and areas extensive. (C. Heninger). NEVADA - Status week ending August 8 (C. Address et al.):

District> County	Species	Population (%)	Number per 0.8 sq m	Hectares	City
On rangeland:					
NE> Elko	<u>Melanoplus sanguinipes</u>	50	12	526.1	Lamoille
	<u>Melanoplus bivittatus</u>	40			

District> County	Species	Population (%)	Number per 0.8 sq m	Hectares	City
NE> Elko	<u>Melanoplus sanguinipes</u>	75	8	48.6	Ruby Valley
	<u>Camnula pellucida</u>	25			
NE> Elko	<u>Melanoplus sanguinipes</u>	80	10	24	Starr Valley
	<u>Mixed</u>	20			
NE> Elko	<u>Melanoplus sanguinipes</u>	90	12	40.5	Maggie Creek
	<u>Oedaleonotus enigma enigma</u>	10			
NE> Elko	<u>Melanoplus sanguinipes</u>	80	9	20	Gamble Ranch
	<u>Melanoplus bivittatus</u>	20			
NE> Eureka	<u>Melanoplus sanguinipes</u>	75	11	129	Maggie Creek
	<u>Mixed</u>	25			
NE> Lander	<u>Melanoplus sanguinipes</u>	94	10	2,282	Battle Mountain, north
	<u>Oedaleonotus enigma enigma</u>	6			
NE> Lander	<u>Melanoplus sanguinipes</u>	100	12	129	Battle Mountain, northeast
W> Humboldt	<u>Melanoplus sanguinipes</u>	85	13	1,845	Orovada area
	<u>Mixed</u>	15			
W> Humboldt	<u>Melanoplus sanguinipes</u>	90	17	404.7	Winnemucca Mountain
	<u>Mixed</u>	10			
W> Pershing	<u>Melanoplus sanguinipes</u>	60	9	1,821	Imlay-Humboldt
	<u>Oedaleonotus enigma enigma</u>	40			
On crested wheat:					
W> Humboldt	<u>Melanoplus sanguinipes</u>	50			
	<u>Aulocara ellioti</u>	30	17	202	Winnemucca, south
	<u>Mixed</u>	20			
On cropland:					
NE> Elko	<u>Melanoplus sanguinipes</u>	50			
	<u>Melanoplus bivittatus</u>	40	12	162	Lamoille
	<u>Mixed</u>	10			
NE> Elko	<u>Melanoplus sanguinipes</u>	90	8	40.5	Metropolis
	<u>Mixed</u>	10			
NE> Elko	<u>Melanoplus sanguinipes</u>	90	9	129	Maggie Creek
	<u>Mixed</u>	10			

District> County	Species	Population (%)	Number per		City
			0.8 sq m	Hectares	
W> Humboldt	<u>Melanoplus sanguinipes</u>	100	10	16	Big Creek
W> Douglas	<u>Melanoplus sanguinipes</u>	100	30	32	Gardnerville

NORTH DAKOTA - Grasshopper adult survey of mainly Melanoplus bivittatus and Melanoplus femurrubrum, with Melanoplus packardii, Melanoplus sanguinipes, Melanoplus differentialis, Melanoplus dawsoni, and Camnula pellucida present. Development from 3rd instar up to adult. (Nelson, C.G. Scholl).

District> County	Range per 0.8 sq m		Average per 0.8 sq m	
	Field	Margin	Field	Margin
SW> Adams	-1 to 15	-1 to 20	4.2	8.1
SC> Emmons	-1 to 12	-1 to 15	2.3	6.4
SC> Grant	-1 to 10	-1 to 20	4.1	10
SC> Morton	-1 to 9	-1 to 18	2.9	7.7
NC> Bottineau	0-6	0-11	1.7	4.2
NC> McHenry	0-8	-1 to 20	2.9	5.9

MEDITERRANEAN FRUIT FLY (*Ceratitis capitata*) - CALIFORNIA - District> County= status: Southern California> Los Angeles= no nonsteriles found, sterile fly releases continue in quarantine area of Fernando (M. Muschinsky); and Central Coast> Santa Clara= total of 52 nonsterile flies trapped to August 19, fruit collection continues around sites where nonsterile flies found, larvae confirmed from 37 properties, sterile releases continue on ground over 36-sq-km area, aerially over 388-sq-km drop zone, and by static release in about 400 Lanai buckets (D. Henry).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= percent larval infestation: SW> Yuma= 6-34% at Yuma, Graham= 0-13%, and C> Maricopa= 9%. Adults per pheromone trap per day: C> Maricopa= 7-85, SW> Yuma= 40-41, and Pinal= 33-34. (C. Chandler et al.).

RANGE CATERPILLAR (*Hemileuca oliviae*) - NEW MEXICO - District> County= status week ending August 8: NE> Colfax, Mora, and Union= controls applied. (J. Banfill).

DETECTION

NEW STATE RECORDS

INSECTS

A MIRID BUG (Deraeocoris ruber) - NEW JERSEY - Essex County. (p. 585).

A MIRID BUG (Phytocoris nigricollis) - VIRGINIA - Prince George County. (p. 581).

NEW COUNTY RECORDS

DISEASES

AN INSECT FUNGUS (Entomophthora phytonomi) - WEST VIRGINIA - Mineral, Monongalia, Barbour, Randolph, Ohio, and Marshall. (p. 583).

INSECTS

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - VIRGINIA - Alleghany. (p. 580).

ALFALFA WEEVIL (Hypera postica) - MINNESOTA - Hubbard, Mille Lacs, and Polk. (p. 580).

A BRACONID WASP (Microctonus aethiopoides) - WISCONSIN - Fond du Lac, Iowa, Jefferson, and Juneau. (p. 583).

A BRACONID WASP (Microctonus colesi) - OHIO - Stark. (p. 584).

A DIASPIDID SCALE (Comstockiella sabalis) - FLORIDA - Charlotte. (p. 583).

A DIASPIDID SCALE (Odonaspis ruthae) - FLORIDA - Hernando. (p. 580).

A EULOPHID WASP (Tetrastichus julis) - See page 584 for KENTUCKY, MARYLAND, MICHIGAN, NEW JERSEY, VIRGINIA, WEST VIRGINIA, and WISCONSIN.

AN ICHNEUMONID WASP (Diaparsis temporalis) - NEW JERSEY - Mercer; PENNSYLVANIA - Montgomery (p. 584).

AN ICHNEUMONID WASP (Lemophagus curtus) - VIRGINIA - Appomattox; WEST VIRGINIA - Greenbrier (p. 584).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - INDIANA - Brown. (p. 576).

TRAP COLLECTIONS

°C	Precip.	Trap	ACw	Aw	BAW	BCw	CEw	CLO	COM	ECB	FAW	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAW
ARIZONA																			
Mesa 8/11-17		B		3	225	17	4	18							1		2		23
CALIFORNIA																			
Bellota 8/17	12-30	B		16	20	4	1	1											
Manteca 8/18	14-31	B		10	15														
INDIANA																			
La Grange 8/18		B				11				673								6	
Tippecanoe 8/20		5P							17				11						
KANSAS																			
Haviland 8/6,13,20,21		B		4			89			38	46								26
Hays 8/19		B		8			8			0	1							0	
KENTUCKY																			
Lexington 8/6-13		B		45		13	24			10	13				3	1			15
MARYLAND (Counties)																			
Baltimore 8/13-15		B		34		30	5			4					8				
Caroline 8/15-17		B		736		166	556			34	8				14		6	18	
NEBRASKA																			
Aurora 8/14-20		B		1561		54	272			1328	4					2			22
Clay Center 8/14-21		B		561		52	57			359							47		3
NORTH CAROLINA (Counties)																			
Robeson 8/18-22		B					66												
Washington 8/18-22		B					1400												
OHIO (Counties)																			
Putnam 8/11-13		B		0		2	0	0		14	0				0	0		0	0
Wayne 8/14-20		2B		58		17	0	0		25	29				0	0		2	0
TENNESSEE																			
Lake 8/15-21		B		97		13	773	12		72	69						2		14
Maury 8/15-21		B		500+		10	45			350					94				28
VIRGINIA															10				
Painter 8/10-16		B		1000		46	958	307		313	1090				21		47	8	155
Warsaw 8/12-18		B		93			3123			738				8					

TRAP COLLECTIONS																			
°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	ClO	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
WISCONSIN																			
		B		538		0	3			310								0	
		B		392		3	1			935								1	
Evansville 8/12-18																			
Mazomanie 8/13-19																			

ABBREVIATIONS:																			
B	Blacklight	ACw	Army Cutworm	ClO	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm										
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm										
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm												
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm												
		CEw	Corn Earworm	GCw	Granulate Cutworm	ToB	Tobacco Budworm												

METRIC CONVERSION

1 cm	= 0.393701 in
1 m	= 3.28084 ft = 1.09361 yd
1 km	= 0.621371 mi
1 sq cm	= 0.155000 sq in
1 sq m	= 10.7639 sq ft = 1.19599 sq yd
1 ha	= 2.47104 acres
1 sq km	= 0.386101 sq mi
1 kg	= 2.20462 lb
1 t (metric ton)	= 1.10231 short ton
1 kg/ha	= 0.892183 lb/acre
1 t/ha	= 0.446091 ton/acre

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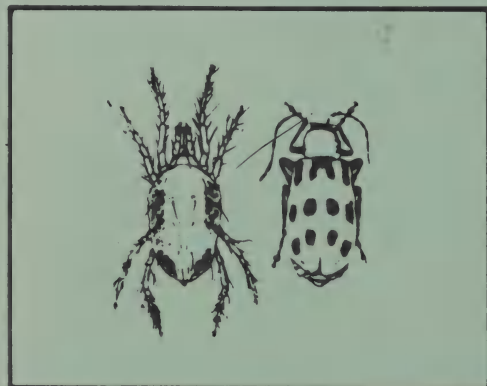


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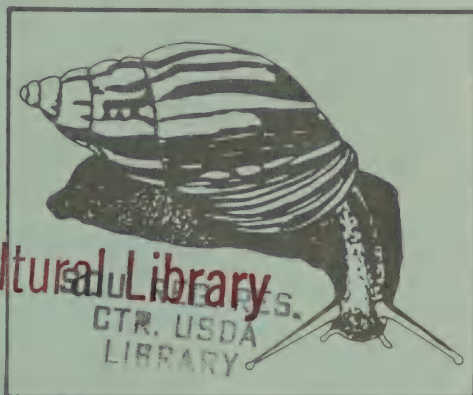
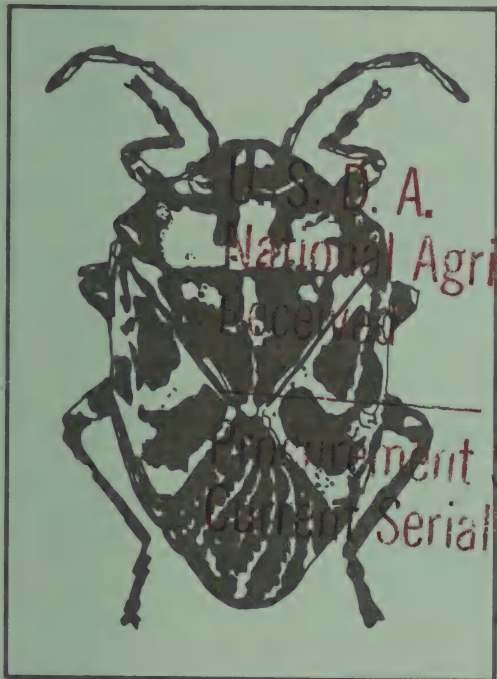
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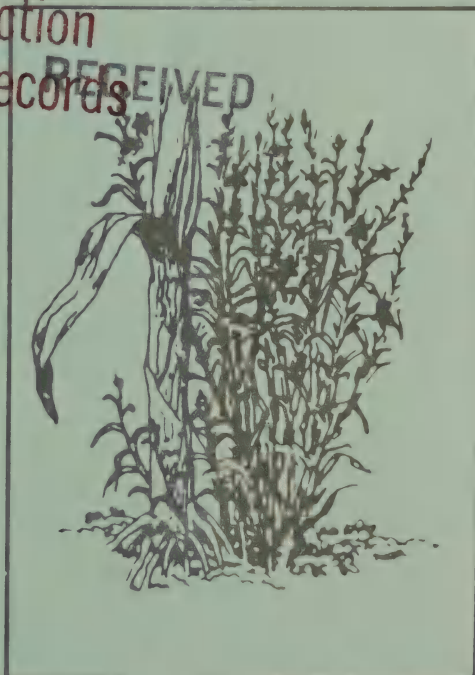
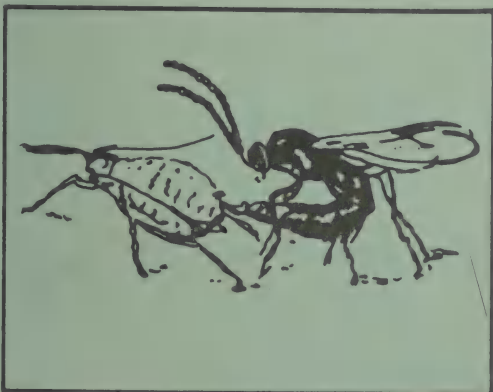
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

First generation EUROPEAN CORN BORER in Illinois decreased from 1979 levels. Increased sharply in east district. (p. 595-596).

CHINCH BUG very heavy on sorghum in several areas of Kansas. (p. 598).

CHARCOAL ROT expected to increase on commercial soybeans in Missouri. (p. 600).

Defoliation by MEXICAN BEAN BEETLE severe on soybeans in southern, western, and central Ohio. (p. 600).

TWOSPOTTED SPIDER MITE damage to soybeans most severe on Eastern Shore of Maryland. (p. 602).

CORN EARWORM continued threat to peanuts in northern and southern areas of North Carolina. (p. 602).

Detection

New State records include HEAD SMUT in Minnesota (p. 593), AMERICAN WHEAT STRIATE MOSAIC VIRUS in Nebraska (p. 593), an INSECT FUNGUS in Virginia (p. 608), and a WEEVIL in New York (p. 610).

For new county records see page 610.

Some First Occurrences of the Season

MAIZE DWARF MOSAIC VIRUS on corn and OAT STEM RUST in Wisconsin.

Reports in this issue are for the week ending August 29 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus* (*Bipolaris*) *carbonum*) - WISCONSIN - Few seed corn fields infected by *Bipolaris zicola* stage, lower 2-6 leaves destroyed, leaf spotting progressing to upper leaves. Treatment considered for more susceptible varieties. Currently no problem on field corn statewide, trace to very light in few scattered fields. District> County= prevalence on corn week ending August 22: SE> Walworth= severe in field of susceptible sweet corn. (O.L. Lovett). PENNSYLVANIA - District> County= *Bipolaris zicola* prevalence on corn [blister] August 13: SC> Franklin= 50% (lesion covered about 5% of leaf area through third leaf) on 100 ha. (D. Ware).

NORTHERN LEAF BLIGHT (*Setosphaeria* (*Exserophilum*) *turcica*) - MARYLAND - District> County= status of imperfect stage on corn, weeks ending August 15 and August 22: NC> Washington and S> Prince Georges= 2 cases reported. (R. Hochmuth). PENNSYLVANIA - District> County= prevalence of imperfect stage on corn [blister] August 14: C> Centre= trace. (D. Ware).

COMMON SMUT (*Ustilago maydis*) - KANSAS - District> County= prevalence on corn [dent] week ending August 15: SC> Kiowa= 10% in 1 field. (T. Sim, IV). MARYLAND - Infestations minor statewide. District> County= prevalence on field corn week ending August 15: Eastern Shore> Wicomico= 50% in 1 field. (R. Hochmuth).

COMMON MAIZE RUST (*Puccinia sorghi*) - KANSAS - District> County= prevalence on corn [dent] week ending August 15: SC> Kiowa= 20% in 1 field. (T. Sim, IV).

A FUSARIUM STALK ROT (*Fusarium* sp.) - KANSAS - District> County= status on corn [dent] week ending August 15: SC> Kiowa= observed in 1 field. (T. Sim, IV).

HEAD SMUT (*Sphacelotheca reiliana*) - MINNESOTA - New State record. District> County= collection data from *Zea mays* (corn): C> Wadena= prevalence trace to 15% in several fields totaling 48.6 ha on farm at Staples, August 1, 1980, collected and determined by E. Stromberg, and confirmed by H. Johnson and T. Komerda. Delimiting surveys continued. State quarantined township of Wadena to eradicate this disease and prevent spread. (E. Stromberg, D. Sreenivasam).

BACTERIAL SPOT (*Pseudomonas syringae*) - KANSAS - District> County= prevalence on sorghum week ending August 15: SC> Kiowa= trace [boot to flower] in 1 field and 20% [boot to flower] in second field, and EC> Wabaunsee= trace [flower] in 1 field. (T. Sim, IV).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - District> County= prevalence on sorghum [flower] week ending August 15: SC> Kiowa= trace in 2 fields. (T. Sim, IV).

AMERICAN WHEAT STRIATE MOSAIC VIRUS - NEBRASKA - New State record. District> County= collection data from *Zea mays* (corn) [silking]: S> Franklin= prevalence about 1% in 1 commercial field west of Riverton, July 24, 1980, collected and determined by L. Lane. (S. Poe).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= status on sorghum [flower] week ending August 15: EC> Wabaunsee= trace in 1 field. (T. Sim, IV).

WISCONSIN - First maize dwarf mosaic virus of season. District> County= status on late-planted sweet corn week ending August 1: SC> Rock= about 10% of plants stunted, showed varying degrees of yellow to pale green foliage. (O.L. Lovett).

CORN LETHAL NECROSIS - NEBRASKA - New county records. Caused by MAIZE CHLOROTIC MOTTLE VIRUS and MAIZE DWARF MOSAIC VIRUS. District> County= collection data from Zea mays (corn): SE> Nuckolls= prevalence about 20% in 1 field [host stage not given] in rural area 2.82 km east of junction of State Highways 14 and 4, July 18, 1980, collected by B. Doupnik; and SW> Red Willow= prevalence up to 1% [silking] in several commercial fields east of Bartley, July 24, collected by L. Lane. Both determined by L. Lane. (S. Poe).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - KANSAS - District> County= status on corn [host stage if given] week ending July 25: WC> Greeley, Gove, and NW> Sheridan= adults emerged as far north and west as these areas (G.E. Sanden et al.); NE> Atchison, Brown, and Jefferson= no eggs on plants (in very poor condition due to hot, dry weather) (B.D. Hilbert); SW> Morton, Stanton, Stevens, Grant, and Seward= mostly pupae, some large larvae, and some emerged in 1 field (M.L. Shuman); and Gray= no egg laying yet, egg masses trace near Cimarron; C> Barton= egg masses averaged 48 per 100 plants [green silk]; SC> Stafford= trace to 10 per 100 plants [silking] in 2 fields (H.L. Brooks); and Edwards and Kiowa= eggs scarce [blister] in 2 fields (G.A. Salsbury); NC> Republic= eggs on 4% of plants [tasseling] but on 32% (4% hatched) of volunteer plants [0.6-2 m tall] in same field, more volunteer than planted stalks. Major instars of first generation in 1 field each: WC> Gove= 5th and pupae in 1 site and 4th to adults in another, NW> Sheridan= pupae, Rawlins= pupae, Sherman= 5th and pupae, and NC> Phillips= adults. (K.O. Bell, Jr). First generation on corn July 21-24 (H.L. Brooks et al.):

District> County	Plants infested (%)	Host stage	Number of fields
WC> Gove	1-10	tassel to silk	2
NW> Sheridan	16	early silk	1
NW> Rawlins	20	pollen	1
NW> Sherman	36	pollen	1
NC> Phillips	16	pollen	1
NC> Republic	trace	tassel	1

Kansas - Status on corn [host stage if given] week ending August 15: SC> Kiowa= larvae infested 0-10% of plants [soft dough to dent] in 2 fields (G.A. Salsbury); C> Barton= eggs infested 50% of plants July 21 but larvae 1 (most fully grown larvae and pupae with some emerged) per plant on 36% of plants by August 11 in 1 field; SW> Gray= fresh eggs scarce where larval infestations 10-30% in 2 fields, about half of larvae tunneled into stalks; Finney= larvae, 3.18-6.4 mm long, on 25% of plants, fresh egg masses very few; NW> Sheridan= eggs on 20% of plants in 1 field August 4, 50% August 7, with controls applied August 8, one of heaviest infestations in several fields. (H.L. Brooks).

NEBRASKA - European corn borer larvae, up to 3rd instar, in most fields. Egg laying peaked probably in southwestern and central districts August 15-22. (Raun). Optimum treatment time for second brood past in most fields in northeast crop district. (Witkowski). Survey data on corn (ear zone is 3 leaves below and above ear) week ending August 14 (Raun):

District> County	Egg masses in ear zone per 100 plants	Number of fields
SW> Dundy	30-78	175
SW> Lincoln	12-20	4
SE> Fillmore	12-22	16
C> Dawson	2-19	96
E> York	10-34	19
E> Butler	8-16	12
E> Saunders	14-55	16
E> Lancaster	12-20	8
N> Wheeler	0-16	43

ILLINOIS - European corn borer populations increased in east district and little change in southwest district, first generation populations generally decreased from 1979 levels. Overall average appeared to decrease, probably due to bad weather during peak adult flight and egg laying statewide. Pupae and empty puparia seen statewide week ending July 25 with adults in NE district> La Salle County and W> Adams. (S. Scanlan). District> County= maximum black-light trap counts per night, week ending July 19: NE> Boon= 5, C> Tazewell= 70, and Peoria= 106. (R. Randell). Status week ending August 15: Statewide> eggs laid and NW> Lee= egg masses 2 per plant in some late-maturing corn, 50% hatched; percent white or hatched egg masses: W> Knox= 10%, Warren= 15%, and Henderson and NW> Mercer= 5%; as far north as Mercer and Whiteside= 3rd and 4th instars fed in ear tips. (D. Bonham, E. Kuebrich). Survey of first generation on corn (A.M. Agnello):

District> County	1980		1979	
	Larvae per 100 plants	Infested (%)	Larvae per 100 plants	Infested (%)
NW> Bureau	3.4	8.0	11.6	18.0
NW> Mercer	1.8	8.0	10.0	16.4
NW> Ogle	18.4	23.2	41.4	44.8
NW> Whiteside	3.6	8.4	20.4	20.4
District	<u>6.8</u>	<u>11.9</u>	<u>20.9</u>	<u>24.9</u>
NE> De Kalb	14.6	20.4	21.8	31.6
NE> La Salle	13.4	15.6	9.0	11.6
NE> McHenry	18.0	24.8	31.6	30.4
District	<u>15.3</u>	<u>20.3</u>	<u>20.8</u>	<u>24.5</u>
W> Knox	7.8	12.4	5.0	6.8
W> McDonough	1.6	4.4	2.2	10.4
W> Adams	6.4	8.0	26.8	20.8
District	<u>5.3</u>	<u>8.3</u>	<u>11.3</u>	<u>12.7</u>
C> Woodford	3.8	7.2	16.8	27.6
C> Logan	1.0	2.8	3.8	8.4
C> McLean	5.2	9.6	14.2	16.0
District	<u>3.3</u>	<u>6.5</u>	<u>11.6</u>	<u>17.3</u>
E> Champaign	0	1.6	0	1.6
E> Iroquois	12.4	14.8	1.0	5.2
E> Kankakee	9.4	17.2	0	6.4
E> Livingston	13.8	20.4	-	-
District	<u>8.9</u>	<u>13.5</u>	<u>0.3</u>	<u>4.4</u>

District> County	1980		1979	
	Larvae per 100 plants	Infested (%)	Larvae per 100 plants	Infested (%)
WSW> Christian	1.4	4.0	0.4	2.4
WSW> Greene	3.6	7.6	10.8	14.8
WSW> Madison	7.8	11.6	18.8	17.6
WSW> Sangamon	1.4	2.4	0	4.4
District	3.6	6.4	7.5	9.8
SW> Jackson	6.6	10.0	-	-
SW> Pulaski	0.4	4.0	7.6	7.6
SW> Randolph	2.6	6.0	4.8	6.0
SW> St. Clair	5.2	12.4	12.9	20.6
SW> Washington	9.6	16.4	5.8	10.0
District	4.9	9.8	7.8	11.1
SE> Edwards	5.0	11.6	28.0	20.8
SE> Franklin	6.8	8.8	12.0	15.6
SE> Massac	1.2	5.6	1.6	2.0
SE> Saline	2.8	8.4	7.8	10.0
SE> White	2.4	7.2	9.6	13.6
District	3.6	8.3	11.8	12.4
State:	6.1	10.4	11.1	14.0

WISCONSIN - European corn borer adults in blacklight traps heavy except in extreme eastern, northeastern, and north-central counties week ending August 22, decrease should occur soon since practically no larvae able to pupate after about August 10. Egg counts vary greatly among fields, with many sweet corn fields having less than 5% of plants infested with eggs or larvae. District> County= status on corn week ending August 22: Central Sands area and SW> Sauk at Spring Green= eggs infested 20% of plants and SC> Columbia= larvae of first generation up to 3 per ear tip in few grain corn fields. Stalk breakage in grain corn by first generation larvae worst seen in many years, due not to heavy populations but due to several wind storms in many localities. (O.L. Lovett).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - KANSAS - District> County= status on corn week ending July 25: C> Barton= egg masses averaged 40 per 100 plants [green silk]; SC> Stafford= egg masses 10-25 per 100 plants [silk] in 2 fields, field with 25 egg masses had first generation infestation of about 75% with much stalk damage (H.L. Brooks); Kiowa= eggs (hatched) on 65% of plants [blister]; and Edwards= eggs on 90% of plants [blister] in 1 field (G.A. Salsbury).

FALL ARMYWORM (*Spodoptera frugiperda*) - KANSAS - District> County= status week ending August 15: SC> Kiowa= whorl infestation heavy in some late sorghum, egg masses common in some corn and sorghum fields, small larvae averaged 5-6 per plant on 100% of plants in most serious situation noted, up to 20% of heads infested in 2 fields (G.A. Salsbury); and SE area> adult flights still substantial (G.E. Lippert, K.O. Bell, Jr.). ARKANSAS - Area> counts of this species and CORN EARWORM (*Heliothis zea*) on late sorghum week ending August 22: State-wide> heavy, 3-6 per plant in whorls. (G. Barnes).

ILLINOIS - Fall armyworm larvae, all sizes, fed on ear tips statewide. District> County= status on corn: ESE> Shelby, WSW> Christian, Montgomery, E> Kankakee, Livingston, and C> Woodford= infested up to 50% of fields. (A.M. Agnello). MARYLAND - Area> status on corn, weeks ending August 15 and 22: Statewide> several heavy infestations reported. (R. Hochmuth). NEW JERSEY - District> County= percent feeding on sweet corn [host stage] week ending August 22: C> Burlington= 96% [whorl] in 0.3 ha field, S> Cape May= 68% [seedling] in 0.2 ha field, NE> Bergen= 44% [pretassel] in 0.2 ha field, and N> Somerset= 44% [pretassel] in 0.3-ha field. (D.G. Talpas).

CORN EARWORM (*Heliothis zea*) - KANSAS - District> County= status week ending August 15: SC> Kiowa= infested 0-25% of sorghum [bloom to milk] heads (G.A. Salsbury) and Pratt= infested 100% of whorls in 1 corn field. (R.J. Bauernfeind). KENTUCKY - District> County= status on corn [silk]: Midwestern> Hopkins= larvae heavy in field, on nearly every ear 3-4 small larvae fed on silks; many ears with nearly full-grown larvae inside. (P.E. Sloderbeck). MARYLAND - Area> status on sweet corn weeks ending August 15 and 22: Lower Eastern Shore> spotty heavy infestations of 100% detected. (R. Hochmuth).

WESTERN BEAN CUTWORM (*Loxagrotis albicosta*) - NEBRASKA - District> County= status on corn August 14: NE> Antelope and N> eastern Holt= most severe infestations (Witkowski); larval (3rd to 5th instars) range per ear (average per ear per infested plant) and percent plants infested: NE> Antelope= 0-12 (4) and 80% in 1 field and 0-6 (2) and 45% in second field (D.L. Keith, Jarvi).

CORN ROOTWORMS (*Diabrotica* spp.) - KANSAS - District> County= status on corn week ending July 25: NE> Brown= adults averaged 2-10 per plant, Atchison and Jefferson= trace (B.D. Hilbert), and NW> Thomas= averaged 3 per plant [early tassel] (G.E. Sanden, H.L. Brooks). KENTUCKY - New county records. District> County= WESTERN CORN ROOTWORM (*Diabrotica virgifera*) collection data from corn: Midwestern> Henderson= adult near Henderson, July 24, 1980, by S. Taylor; and C> Butler= several adults near Morgantown, July 23, by K. O'Brien. Both determined by P.E. Sloderbeck. (P.E. Sloderbeck). OHIO - District> County= NORTH-EARN CORN ROOTWORM (*Diabrotica longicornis*) adults per field corn [tassel] stalk July 21: NC> Ashland= 0.02. (R. Wadleigh).

SORGHUM MIDGE (*Contarinia sorghicola*) - TENNESSEE - Became very heavy in late sorghum, most fields checked above control levels. (J. Locke).

GREENBUG (*Schizaphis graminum*) - KANSAS - Colonies formed on sorghum leaves in some areas and sometimes only on scattered plants. District> County= status on sorghum [host stage if given] week ending July 25: NW> Thomas= averaged 20-25 per plant [heading] (H.L. Brooks, G.E. Sanden), SW> Gray= 20-400 (some winged) per plant (H.L. Brooks, D.E. Gates), NC> Republic= scattered small colonies on shattercane (*Sorghum bicolor*) in corn, Washington= trace [51 cm tall], on scattered plants, NE> Marshall= none [51 cm tall] (K.O. Bell, Jr.), northeastern most counties> none (B.D. Hilbert), and SW> Stevens and Haskell= trace [76 cm to boot] (T. Sim, IV).

Kansas - Greenbug week ending August 15: SC> Kiowa= averaged 0-200 per plant in 4 fields [11 leaf to milk]; Comanche= 18 per plant [11 leaf] in 1 field, populations highly variable from plant to plant (G.A. Salsbury); C> Russell, NW> Graham, Decatur, and Rawlins= populations decreased rapidly [head to bloom] due to parasitism (10-95%) by an APHIDIID WASP (*Lysiphlebus testaceipes*); C> Russell and NW> Graham= leaf damage light before control by beneficial wasp in

fields checked; and Decatur and Rawlins= greenbug damage heavy, especially to some plants, in some fields, evidence of treating in 1 field in latter county (K.O. Bell, Jr.).

CHINCH BUG (Blissus leucopterus leucopterus) - KANSAS - Second generation built up to very heavy numbers on sorghum in some areas. District> County= status week ending July 25: SE> Bourbon= populations increased to substantial numbers on sorghum where first generation light (G.E. Lippert), SC> Reno= nymphs up to 1,600 per plant on milo at 1 site (R.J. Bauernfeind), NC> Jewell= small nymphs very heavy behind leaf sheaths of sorghum [25-51 cm tall] at some sites in southwestern area, and NE> Marshall= small and large nymphs very heavy on lower half of sorghum [51 cm tall] plants at 1 site near Waterville (K.O. Bell, Jr.).

Kansas - Chinch bug on sorghum week ending August 1: C> Marion, McPherson (R.J. Bauernfeind), NC> Mitchell, Cloud, and Ottawa (K.O. Bell, Jr.)= second generation heavy, rapidly destroyed drought-stressed stands of poorly rooted sorghum in some areas, smaller plants destroyed first, in some fields only few large plants [up to 61 cm tall] remained; NC> Mitchell and Cloud= many fields plowed in area along U.S. Highway 24 from Beloit to Glasco, some second generation adults in these areas; SE> Bourbon= commonly averaged 50-100 per plant (G.E. Lippert); NE> Nemaha= averaged 70-80 per plant in some fields; and NC> Washington= averaged 200-250 per plant in some fields. (B.D. Hilbert).

SPIDER MITES - NEBRASKA - District> County= status of TWOSPOTTED SPIDER MITE (Tetranychus urticae) and BANKS GRASS MITE (Oligonychus pratensis) on corn: NE> Antelope= scattered, increased with some plants having small colonies on 2-3 leaves above ear and minor leaf discoloration on lower leaves (Witkowski), SW> Dundy= small colonies above ear [late blister to soft dough, mostly milk] in 175 fields with some medium-sized colonies below ear and some leaf discoloration in 175 fields, and Lincoln= small colonies above ear and small to medium-sized colonies below ear with no visible leaf discoloration in 12 fields August 8-14. (Raun).

District> County	Host stage	Number of fields treated	Number of fields
C> Dawson	dough to early dent	90	96
E> York	dough to hard dent	4	19
E> Butler	dough to hard dent	2	12
E> Saunders	dough to hard dent	0	16
E> Lancaster	dough to hard dent	0	8
SE> Fillmore	dough to early dent	11	16

TURF, PASTURES, RANGELAND

INSECTS

A DIASPIDID SCALE (Haliaspis uniola) - FLORIDA - New county records. District> County= collection data: NW> Escambia= on leaves and stem of Uniola paniculata (sea oats) along shoreline at Fort Picken, May 6, 1980, collected by D. Reese (D. Reese); and S> Brevard= adults from Spartina patens (salt-meadow cordgrass) along road near Melbourne, May 8, collected by R. Kendrick. Both determined by A.B. Hamon. (R. Kendrick).

A DIASPIDID SCALE (*Circulaspis fistulella*) - FLORIDA - New county record. District> County= collection data from *Spartina patens* (salt-meadow cordgrass): S> Brevard= adults along road near Melbourne, May 8, 1980, collected by R. Kendrick, determined by E. Mercer, and confirmed by A.B. Hamon. (R. Kendrick).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Continued to be most common alfalfa disease. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
EC> Douglas	trace to 100	0	38-46
EC> Wabaunsee	trace to 10	0	30-43
NE> Leavenworth	trace	0	20

ALFALFA BACTERIAL LEAF SPOT (*Xanthomonas alfalfae*) - KANSAS - District> County= prevalence on alfalfa [41 cm tall]: EC> Douglas= seen in 1 field. (T. Sim, IV).

INSECTS

BEET ARMYWORM (*Spodoptera exigua*) - ARIZONA - District> County= counts per 100 sweeps of alfalfa week ending August 14: SW> Yuma= adults 340 and C> Maricopa= larvae 180. (J. Childers et al.). NEW MEXICO - District> County= status on alfalfa week ending August 15: SE> Eddy and Chaves= moderate to heavy, spotty, difficult to control. (J. Durkin, C. Ward).

ALFALFA CATERPILLAR (*Colias eurytheme*) - ARIZONA - District> County= larvae and adults per 100 sweeps of alfalfa week ending August 15: C> Pinal= 36 and 18, Maricopa= 3-260 and no data, and SW> Yuma= 2-8 and 120-160. (J. Childers et al.). KANSAS - District> County= larvae per 25 sweeps of irrigated alfalfa week ending July 25: SW> Gray= averaged 20-25, some diseased. (H.L. Brooks).

ALFALFA BLOTCH LEAFMINER (*Agromyza frontella*) - VIRGINIA - New county records. District> County= collection data of larvae on leaves of *Medicago sativa* (alfalfa): W> Rockbridge= near Lexington, August 5, 1980, collected by L.M. Los; SW> Montgomery= near Blacksburg, August 11, collected by S.J. Fleischer and D. Campbell, both determined by B. Hendrickson. W> Bath and Highland= cities unreported, July 10, and N> Warren= city unreported, July 17, all 3 collected and determined by J. Plummer. (G.L. Clement). WEST VIRGINIA - New county records. District> County= collection data from *Medicago sativa* (alfalfa): E> Pendleton= larvae on leaves near Franklin, May 28, 1980, collected by H.L. Smith and W.D. Jones, and determined by R.M. Hendrickson; Greenbrier= leaves contained larval mines at Lewisburg, July 2, collected by G.L. Clement, and determined by B. Hendrickson. (G.L. Clement).

POTATO LEAFHOPPER (*Empoasca fabae*) - OHIO - Nymphs and adults in samples of alfalfa July 2, probably too light to represent population in other fields. "Hopperburn" on alfalfa and potatoes indicated numbers at economic levels in certain fields. District> County= counts per sweep of alfalfa [host height]: NC> Ashland= 1.2 [38 cm] and [33 cm] in 2 sites and C> Morrow= 3.1 [38 cm]. (R. Wadleigh).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - KANSAS - District> County= status on alfalfa [bloom] week ending August 15: SC> Kiowa= heavy, 38 per stem, in 1 field with 50% defoliation; Comanche= none noted in 1 field. (G.A. Salisbury). OHIO - District> County= counts per sweep of alfalfa [host height] July 15: SW> Montgomery= 0.2 [33 cm]; July 21: NC> Ashland= 6.0 [38 cm] and 1.2 [33 cm] and C> Morrow= 0.1 [38 cm]. (R. Wadleigh).

SOYBEANS

DISEASES

CHARCOAL ROT (*Macrophomina phaseolina*) - MISSOURI - Soybean plants dead and dying in large patches scattered in commercial fields, similar situation in monitoring plots. Affected fields under severe drought since spring and under abnormally high temperatures. Prevalence expected to increase. (A. Foudin).

SOYBEAN BROWN SPOT (*Septoria glycines*) - KANSAS - Status of this disease and BACTERIAL PUSTULE (*Xanthomonas phaseoli* f.sp. *sojensis*) on soybeans [pods beginning]: NE> Leavenworth= trace in 1 field. (T. Sim, IV).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - OHIO - District> County= status on soybean [pod 20 mm long at 1 of 4 uppermost nodes with completely unrolled leaf] plants July 24: SC> Brown= defoliation 20% in research planting, many larvae and adults seen, treatment needed. (R. Hammond). Defoliation severe in southern, western, and central areas August 22-26. (R. Hammond, R. Wadleigh). District> County= defoliation of soybeans in number of fields (f): SC> Brown= 25-60% in 6f and 100% in 1f in southern area, SW> Preble= 25% in 1f in western area, Montgomery= 50% in 1f in western area, C> central Pickaway and NC> north-east to central Richland= 60% in 1f each. Damage in many other fields not as heavy. (R. Wadleigh).

District> County	Larvae per sweep	Adults per sweep	Host stage
C> Pickaway	3.0	0.3	beginning seed
C> Pickaway	1.7	0.6	beginning seed to full seed
C> Pickaway	1.9	0.5	beginning seed
C> Fairfield	4.4	0.7	beginning seed
C> Knox	0.8	0.1	beginning seed
C> Morrow	0.3	0.7	beginning seed to full seed
C> Licking	1.6	0.3	beginning seed
C> Licking	0.8	0.4	beginning seed
C> Ross	0.9	0.5	beginning seed to full seed
SC> Highland	5.3	0.2	beginning seed
SC> Brown	4.4	0.1	beginning seed
SW> Preble	0.6	0.2	full seed
SW> Montgomery	1.7	0.2	full seed
NC> Richland	9.3	1.3	full seed

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - ALABAMA - Area> adult counts (average) per 4.6 row m of soybean [host stage] plants in number of fields (f) August 12: Gulf Coast> 1 (1) [bloom] in 2f, Coastal Plains> 2-50 (18.8) [bloom to pod] in 3f (T. Lemons), Central Alabama> 1-15 (6) [bloom] in 4f (C. Knox, N. Wilson), Black Belt> 1-11 (3.8) [bloom to pod] in 4f (T.I. Pigott, G. Walker),

Tennessee River> bean leaf beetle 3-5 (4) [pod] in 4f (J.E. Gregory), and Sand Mountain> 1-3 (2) [pod to seed] in 5f; August 19: Gulf Coast> 2 (2) [pod] in 1f, Coastal Plains> 4-10 (7.3) [bloom to pod] in 3f (T. Lemons), Central Alabama> 1-5 (3) [pod] in 2f (C. Knox, N. Wilson), Black Belt> 1-37 (7.7) [bloom to pod] in 6f (T.I. Pigott, G. Walker), and Sand Mountain> 1-7 (2.5) [pod] in 4f (W.A. Smith).

WHITEFRINGED BEETLES (*Graphognathus* spp.) - ALABAMA - Area> larval counts (average) unless stated otherwise per 4.6 row m of soybean [host stage] plants in number of fields (f) August 19: Coastal Plains> 4 (4) [pod] in 1f (T. Lemons), Wiregrass> 2-8 (3) [bloom to pod] in 7f (W.N. Stephenson), Black Belt> 2 (2) [pod] in 1f (T.I. Pigott, G. Walker), and Sand Mountain> adults 1-9 (5) [pod] in 2f. (W.A. Smith).

SOYBEAN LOOPER (*Pseudoplusia includens*) - ALABAMA - Area> larval counts (average) per 4.6 row m of soybean [pod] plants in number of fields (f) August 19: Gulf Coast> 4th instars 2 (2) in 1f, Coastal Plains> 3rd to 5th instars 2-70 (25) in 3f (T. Lemons), Central Alabama> 3rd to 4th instars 1-2 (1.5) in 2f (C. Knox, N. Wilson), Black Belt> 2nd instars 1 (1) in 4f (T.I. Pigott, G. Walker), and Sand Mountain> 2nd instars 1 (1) in 2f (W.A. Smith).

CORN EARWORM (*Heliothis zea*) - OKLAHOMA - District> County= status on soybeans week ending August 15: NE and EC areas> larvae 0-2 per 0.3 row m, defoliation 0-3% in 22 fields, and SE> Choctaw= eggs and adults light. (D.C. Arnold). ARKANSAS - Area> status on soybeans week ending August 22: Statewide> infestations above treatment levels increased in many fields, heaviest infestation areas in White and Black River Deltas in north-central and northeastern areas; currently: Still very heavy on soybeans. Larvae 8-10 per 0.3 row m in up to 50% of irrigated fields. (G. Barnes).

ALABAMA - Area> corn earworm larval counts (average) per 4.6 row m of soybean [host stage] plants in number of fields (f) August 12: Gulf Coast> 3rd instars 7-31 (14) [bloom] in 4f, Coastal Plains> 1st to 2nd instars 3-10 (5) [bloom to pod] in 4f (T. Lemons), Wiregrass> 2nd to 4th instars 2-10 (4.5) [bloom to pod] in 6f (W.N. Stephenson), Central Alabama> 5th instars 1 (1) [pod] in 1f (T.I. Pigott, G. Walker), and Tennessee River> 3rd to 4th instars 1-3 (2) [pod] in 3f (J.E. Gregory); August 19: Coastal Plains> 3rd to 4th instars 2 (2) [bloom to pod] in 2f (T. Lemons), Wiregrass> 3rd to 5th instars 2-10 (4.3) [bloom to pod] in 4f (W.N. Stephenson), and Black Belt> 2nd to 4th instars 1 (1) [pod] in 2f (T.I. Pigott, G. Walker).

TENNESSEE - Area> corn earworm status week ending August 15: W> pod feeding began to show all over, adult light trap catches very heavy indicating things will get worse. (J. Locke). SOUTH CAROLINA - District> County= status on soybeans August 5-12: Savannah Valley area> generally decreased, growers should be alert for adult flight on late-planted beans toward end of August (J. Chapin), S> Jasper= larval damage light on blooming beans, and Peedee area> larvae heavy in some fields (T. Walker, D. Manley).

NORTH CAROLINA - District> County= corn earworm status on soybeans week ending August 15: Central Coastal> in and south of Johnston, Wilson, and Craven= larvae reached threshold level in about 50% of fields. Northern Coastal> Northampton, Halifax, Edgecombe, Perquimans, and Bertie= surveys indicate some fields reached action threshold, many expected to reach threshold August 14-19, S area> adult activity continued to decrease indicating major egg laying past for season, and Northern Coastal Plains> adults taken in light traps stabilized, active egg laying expected to continue through August 21. (T.N. Hunt).

VIRGINIA - Corn earworm heavy. District> County= 2nd and 3rd instars per 0.3 row m of soybeans: SE> Southampton= 46. (J. Taylor).

FALL ARMYWORM (Spodoptera frugiperda) - ARKANSAS - Area> status on soybeans: Northeastern one-third of State> infestations increased with new generation. (G. Barnes).

GREEN CLOVERWORM (Plathypena scabra) - ALABAMA - Area> larval counts (average) per 4.6 row m of soybean [host stage] plants in number of fields (f) August 12: Gulf Coast> 2nd to 3rd instars 5-6 (5.3) [bloom] in 3f, Coastal Plains> 1st to 2nd instars 1-16 (7) [bloom to pod] in 6f (T. Lemons), Wiregrass> 2nd to 3rd instars 1-8 (3.7) [bloom to pod] in 7f (W.N. Stephenson), Central Alabama> 3rd to 4th instars 1-5 (2) [bloom to pod] in 5f (C. Knox, N. Wilson), Black Belt> 2nd to 6th instars 2-22 (7.6) [bloom to pod] in 5f (T.I. Pigott, G. Walker), Tennessee River> 3rd to 4th instars 2-5 (3.3) [pod] in 4f (J.E. Gregory), and Sand Mountain> 2nd instars 1-3 (1.7) [pod to seed] in 3f (W.A. Smith).

Alabama - Green cloverworm counts (average) per 4.6 row m of soybeans [host stage] plants in number of fields (f) August 19: Coastal Plains> 3rd instars 10 (10) [pod] in 1f (T. Lemons), Wiregrass> 2nd to 3rd instars 2-15 (7.1) [bloom to pod] in 7f (W.N. Stephenson), Central Alabama> 3rd instars 2-4 (3) [pod] in 4f (C. Knox, N. Wilson), Black Belt> 2nd to 5th instars 3-11 (6.5) [bloom to pod] in 6f (T.I. Pigott, G. Walker), and Sand Mountain> 3rd instars 2 (2) [pod] in 2f (W.A. Smith). OHIO - District> County= larvae per sweep of soybeans [flower at node below uppermost node with completely unrolled leaf] July 21: NE> Wayne= 0.02. (R. Wadleigh).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - SOUTH CAROLINA - Problems in widely scattered area. District> County= status on soybeans August 11-12: C> Lee= lodging in fields especially prevalent. (J. Chapin, D. Manley).

POTATO LEAFHOPPER (Empoasca fabae) - OHIO - District> County= nymphs and adults per sweep of soybeans July 21: C> Morrow= 0.41 [1 flower at any node] and NE> Wayne= 2.0 [flower at node below uppermost node with completely unrolled leaf]. (R. Wadleigh).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - MARYLAND - Area> status on soybeans, weeks ending August 15 and August 22: Eastern Shore> caused most severe damage to entire area, several fields with severe infestations well into middle of small fields. (R. Hochmuth).

PEANUTS

INSECTS

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Continued threat in northern and southern production areas. District> County= status on peanuts week ending August 15: Southern Coastal> Sampson and Bladen= threshold levels met, northern area> eggs and small larvae seen, threshold levels expected to be met August 15-19 in some fields. Week ending August 22: Northern production area> defoliation reached threshold, 30+% of fields reached or will reach threshold level before August 29. (T. Hunt).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - SOUTH CAROLINA - Area> status on peanuts August 11-12: Savannah Valley> infestations 40-50% in many fields and Peedee counties> still major problem, averaged 40%, ranged 30-80%. (J. Chapin, D. Manley). NORTH CAROLINA - District> County= status on peanuts week ending August 22: Northern Coastal> Martin, Northampton, and Halifax= damage continued, seemed worse in light soils under drought stress. (T. Hunt).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - Status on cotton August 11-15 (R.D. Parker et al.):

District> County	Status
Lower Gulf Coast area	diapause 50+%
Southern Low Plains> Knox	damaged squares light
Northern Low Plains> Dickens	2 adults trapped
Rolling Plains area	light
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	punctured squares under 6% in most dryland fields
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	punctured squares 0-18% in irrigated fields

SOUTH CAROLINA - District> County= boll weevil status on cotton August 11: C> Clarendon= damage continued to average about 6%, heavier in some fields. (D. Manley).

BOLLWORMS (*Heliothis* spp.) - NEW MEXICO - District> County= BOLLWORM (*Heliothis zea*) status on cotton week ending August 15: SE> Eddy, Chaves, and NE> Roosevelt= moderate to heavy, SE> Dona Ana and SW> Luna= moderate to heavy, spotty. (J. Durkin, C. Ward). TEXAS - Populations of BOLLWORM (*Heliothis zea*) and TO-BACCO BUDWORM (*Heliothis virescens*) increased on cotton especially in Rolling Plains, South Plains, and Panhandle areas, *Heliothis zea* problems decreased around San Angelo area. (J.A. Jackman). District> County= adults per trap August 7: Northern High Plains> Hale= 1,556. (G.B. Cronholm). Counts on cotton August 7-15 (E.P. Boring, III et al.)

District> County	Eggs	Larvae	Damaged squares	Unit sample
Blacklands> Milam	27	6	-	100
Southern Low Plains> Jones and Fisher	increased	mostly medium to large	-	-
Northern Low Plains> Wilbarger	up to 43,000	-	100% in some fields	-
Northern Low Plains> Dickens	-	-	0-54%	-
Northern Low Plains> Kent	-	-	0-46%	-
Northern Low Plains> Motley	-	-	0-12%	-
Northern Low Plains> Hall	-	-	0-12%	-
Northern Low Plains> Hardeman	up to 50,000	-	-	0.4 ha
Northern High Plains> Hale	-	75	-	100
Southern Low Plains> Knox	up to 50,000	-	-	plants 0.4 ha

District> County	Eggs	Larvae	Damaged squares	Unit sample
Southern High Plains> Crosby & Northern High Plains> Floyd	up to 90 (mean of 35)	-	-	100
South Plains area	increased	-	-	100
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	20-55	0-7	-	100
Trans-Pecos> El Paso	0-18	2-14	2-16	100
Trans-Pecos> Hudspeth	10-75	5-20	5-20	100
Trans-Pecos> Reeves	5-20	1-5	2-10	100
Trans-Pecos> Pecos	5-30	1-12	2-20	100
Southern High Plains> Martin	0-100	0-3	8-42	100
Southern High Plains> Howard	0-2	2-26	4-29	100
Southern High Plains> Glasscock	0-165	0-15	0-55	100
Edwards Plateau> Reagan	1-24	1-4	8-18	100
Edwards Plateau> Upton	0-20	0-8	0-34	100

OKLAHOMA - District> County= Heliothis spp. status on cotton week ending August 15: Southwestern Counties> new egg lay underway, mostly in irrigated fields; SW> Jackson, Tillman, Harmon, Greer, and Kiowa= eggs 2-54 (averaged 8) and larvae 0-34 (averaged 4) per 100 terminals in 40 fields, many fields treated. Adults in number of pheromone traps: SW> Jackson= Heliothis zea 1 and Heliothis virescens 2 in 7 traps each, and Harmon= Heliothis zea 2 and Heliothis virescens 1 in 1 trap each. (D.C. Arnold). ARKANSAS - Area> Heliothis spp. status on cotton week ending August 22: Statewide> still most important insect problem on cotton, many fields beyond damage point as drought cut off growth. Irrigated fields still infested above treatment level in most areas. (G. Barnes).

TENNESSEE - Heliothis zea egg laying continued to be heavy in rank cotton. District> County= eggs per 100 terminals week ending August 15: Western area> 0-18, primarily on lateral terminals, many fields above control levels; Cumberland Plateau> Franklin and Central Basin> Lincoln= averaged 50+ in rank cotton. (J. Locke, J. Cagle). Currently: Heliothis zea eggs and larvae 1-12% infested fields. All larval instars present. Heavier on rank cotton but most fields maturing rapidly and open bolls common. (J. Locke). SOUTH CAROLINA - District> County= Heliothis zea counts on cotton August 11-12: NC> Kershaw= eggs 8%, C> Lee and Richland= eggs up to 20%, large larvae averaged about 2-3% and small larvae 1%, Sumter= large larvae nearly 20%, Peedee area> damage averaged 5% (D. Manley), and Savannah Valley area> eggs light (J. Chapin).

BEET ARMYWORM (Spodoptera exigua) - NEW MEXICO - District> County= status on cotton week ending August 15: SE> Eddy, Chaves, Lea, Dona Ana, and NE> Roosevelt= moderate to heavy, very spotty (J. Durkin, C. Ward). OKLAHOMA - District> County= status on cotton week ending August 15: SW> Jackson, Tillman, and Kiowa= heavy in occasional field, but light in most fields. (D.C. Arnold).

COTTON LEAFPERFORATOR (Bucculatrix thurberiella) - ARIZONA - District> County= larvae on cotton week ending August 14: C> Pinal= 2-20 per 100 sweeps and SW> Yuma= 100 per 100 leaves. (F. Brooks et al.).

BANDEDWINGED WHITEFLY (Trialeurodes abutilonea) - TENNESSEE - Area> status on cotton: SW> still heavy. (J. Locke).

POTATOES, TOMATOES, PEPPERS

DISEASES

POTATO LATE BLIGHT (*Phytophthora infestans*) - WISCONSIN - District> County= status on potatoes week ending August 1: NE> Langlade= in commercial fields in Antigo area; week ending August 22: NE> Langlade= conditions ideal for development and spread in Antigo area, tuber infection apparent. (O.L. Lovett).

POTATO EARLY BLIGHT (*Alternaria solani*) - WISCONSIN - Area> status on potatoes week ending August 22: Central Sands> problem due to long periods of leaf wetness. (O.L. Lovett).

INSECTS

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - OHIO - District> County= status July 18-22: C> Morrow= larvae trace (3 per 0.3 row m) in 4.6 row m section of flowering potatoes, other fields free from activity; NE> Portage= adults 0.5 per 0.3 row m in 2 isolated spots in flowering potatoes, other fields free from activity (R. Wadleigh); and NE> Wayne= eggs 0.05, larvae 0.85, and adults 3.9 per hill on untreated medium early potatoes (R. Cooper).

Ohio - Colorado potato beetle status week ending August 15: NE> Wayne= all stages in commercial potato fields, most infestations under economic control, (D. Kelly), C> Pickaway= adults heavily infested 2 commercial tomato plantings August 13, beetles migrated from nearby heavily infested potato field recently mowed for harvest, beetles averaged 32.3 per tomato plant [8 cm fruit] in 1 field and caused 10% defoliation. Adults averaged 48 per plant in second field, caused heavy defoliation, and fed on some fruit. (R. Wadleigh). MARYLAND - Area> status on tomato weeks ending August 15 and 22: Eastern Shore> heavy pressure continued in spotty cases. (R. Hochmuth).

STALK BORER (*Papaipema nebris*) - OHIO - Edge row infestations. District> County= larvae, 3.5 cm long, on potatoes July 21-22: C> Morrow= 0.3 per stem and NE> Portage= 0.3 per 0.3 row m not found in interior of either field. (R. Wadleigh).

POTATO LEAFHOPPER (*Empoasca fabae*) - OHIO - District> County= counts per sweep of potatoes July 21: C> Morrow= 0.4, "hopperburn" seen, area confined to occasional rows without systemic treatment in soil at planting. (R. Wadleigh).

BEANS AND PEAS

DISEASES

BEAN BROWN SPOT BLIGHT (*Pseudomonas syringae*) - WISCONSIN - Increased sharply on snap beans in Central Sands area week ending August 1. Spotted foliage previously on about 3% of foliage, now up to 50% in some fields. (O.L. Lovett).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - OHIO - District> County= counts on lima beans [8 cm pods] July 23: C> Knox= larvae up to 10 on underside of 1 leaf and adults 7 on 1 plant, 10-20% defoliation of commercial beans. (R. Wadleigh).

DECIDUOUS FRUITS AND NUTS

DISEASES

FIRE BLIGHT (*Erwinia amylovora*) - WISCONSIN - District> County= status on apples week ending August 1: C> Wood, WC> La Crosse, Trempealeau, and EC> Outagamie= becoming more severe. (O.L. Lovett).

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - WISCONSIN - District> County= trap counts August 10-22: SW> Richland= 6, SE> Racine= 1, Waukesha= 38, SC> Dane= 2 and 3 in 2 traps, EC> Manitowoc= 5, and C> Wood= 13 in orchards. (O.L. Lovett). OHIO - District> County= adults in pheromone traps July 15-21: NE> Wayne= 8 in 2 traps. (F. Hall).

REDBANDED LEAFROLLER (*Argyrotaenia velutinana*) - OHIO - Adult flight activity still decreasing. District> County= adults per pheromone traps: NE> Wayne= 3 in 2 traps July 15-21 and 5 during July 18-25. (F. Hall).

APPLE MAGGOT (*Rhagoletis pomonella*) - OREGON - County= status on apples: Multnomah= adults recovered from 115 sites as of August 15. (R.L. Penrose et al.). Washington= new county record--3 females and 1 male trapped on residential apple tree at West Slope in mid-August by M. West and M. Hanson, and determined by R.L. Penrose; 3 additional collections from eastern area, another at West Slope, and 1 each at Garden Home and southwestern Tigard. (M. West et al.). Currently: Multnomah= adults still trapped in Portland area, adults very heavy on late variety apple at northwest Gresham, August 26, activity on late fruit may continue for some time, fruit showed mostly egg laying scars, eggs, and little larval damage. Delimiting surveys still underway and have been expanded southward into King City area of Washington County and Estacada area of Clackamas County. Total of 223 lots of adults identified from Multnomah (173), Clackamas (43) in northern area, and Washington (7). (R.L. Penrose et al.).

WISCONSIN - District> County= apple maggot on fruit: SC> southern Columbia= dissections of fruit from wild, untreated trees showed recent damage on about 75% of fruit and old damage on about 5%. Trap counts August 10-20: SW> Richland= 3, SE> Racine= 0, Waukesha= 0, SC> Dane= 3 and 8 in 2 traps, EC> Manitowoc= 0, and C> Wood= 0 in orchards. (O.L. Lovett).

EUROPEAN RED MITE (*Panonychus ulmi*) - OHIO - District> County= status of this species and a PHYTOSEIID MITE (*Amblyseius fallacis*) per leaf on Red Delicious apple trees July 21: C> Fairfield= motiles average 7 and 0.09, respectively, in orchard giving predator to prey ratio of 1:78, no prospect of preventing European red mite from causing extensive leaf damage. Visible damage to Red Delicious averaged 16 bronzed clusters per tree, treatment warranted. (R.P. Holdsworth).

ORNAMENTALS

INSECTS

CALIFORNIA RED SCALE (*Aonidiella aurantii*) - FLORIDA - New county record. District> County= collection data from *Prunus* sp. (plum): S> St. Lucie= adults moderately infested leaves at residence at Walton, May 5, 1980, collected by E. Campbell, and determined by A.B. Hamon. (E. Campbell).

A DIASPIDID SCALE (*Aonidomytilus solidaginis*) - FLORIDA - New county record. District> County= collection data from *Eupatorium* sp. plant: C> Marion= adults on stems of few plants on property at Silver Springs, May 21, 1980, collected by F. McHenry and A. Bentley, and determined by A.B. Hamon. Plants in wild. (F. McHenry).

COCONUT SCALE (*Aspidiotus destructor*) - FLORIDA - New county record. District> County= collection data from *Chrysalidocarpus lutescens* (Madagascar palm): NW> Okaloosa= on leaves in nursery at Mary Esther, May 6, 1980, collected by D. Reese, and determined by A.B. Hamon. Plants in nursery 1+ years. (D. Reese).

A DIASPIDID SCALE (*Chionaspis nyssae*) - FLORIDA - New county record. District> County= collection data from *Nyssa sylvatica* (black tupelo) plant: C> Putnam= adults heavily infested leaves in nursery at San Mateo, May 13, 1980, collected by K. Elliott, and determined by A.B. Hamon. Plant dug out of wild 6 years ago in same county. (K. Elliott).

FLORIDA RED SCALE (*Chrysomphalus aonidum*) - FLORIDA - New county record. District> County= collection data from *Dracaena marginata* plants: NW> Okaloosa= on 3 plants in nursery at Mary Esther, May 6, 1980, collected by D. Reese, and determined by A.B. Hamon. Plants in nursery 1+ years. (D. Reese).

A DIASPIDID SCALE (*Pseudoparlatoria parlatorioides*) - FLORIDA - New county record. District> County= collection data from *Sabal palmetto* (cabbage palmetto): C> Citrus= adults moderately infested leaves of all 10 plants in wild near Inverness, May 14, 1980, collected by R. Phillips, and determined by A.B. Hamon. (R. Phillips).

A DIASPIDID SCALE (*Quadraspidiotus taxodii*) - FLORIDA - New county record. District> County= collection data from *Eupatorium* sp. plant: C> Marion= adults on stems of few plants on property at Silver Springs, May 21, 1980, collected by F. McHenry and A. Bentley, and determined by A.B. Hamon. Plants in wild. (F. McHenry).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - ILLINOIS - New host record for State. District> County= collection data from *Pinus resinosa* (red pine): E> Champaign= larvae and few adults moderate on tree that died summer of 1979, at university forest plantation near Urbana, March 7, 1980, collected by J.E. Appleby. New county records. District> County= collection data from *Pinus* sp. (pines): SE> Massac= juveniles and adults in declining 18-year-old *Pinus sylvestris* (Scotch pine) tree on landscape planting along approach to industrial plant near Joppa, April 13, 1980, collected by D.E. Gragg, and C> Mason= juveniles and adults in *Pinus sylvestris* (Scotch pine) that died early spring of 1980, juveniles only in *Pinus banksiana* (jack pine) and *Pinus resinosa* (red pine) that died 1 and 2 years earlier, respectively, all on nearly mature plantation in State forest near Topeka, April 25, collected by R.B. Malek and J.M. Willut. All determined by R.B. Malek. (E.G. Jordan).

MARYLAND - New county records for pinewood nematode. District> County= collection data for larvae and adults from *Pinus* sp. (pines): Eastern Shore> Talbot= collected from *Pinus sylvestris* (Scotch pine) on private land at Porters Pride, April 18, 1980, by R. Dekker; NC> Cecil= collected from *Pinus thunbergiana* (Japanese black pine) on State land southbound on Interstate Highway 95, April

24, by R. Dekker; and Frederick= collected from Pinus virginiana (Virginia pine) on State land eastbound on Interstate Highway 270, one km west of Monocacy River, June 4, by R. Dekker and S. Ianniello. All determined by R. Dekker. (R. Dekker, R. Hochmuth).

INSECTS

A DIASPIDID SCALE (Aonidomytilus solidaginis) - FLORIDA - New county record. District> County= collection data from Taxodium distichum (bald-cypress) plants: C> Marion= adults on leaves of all 3 plants on property at Silver Springs, May 21, 1980, collected by F. McHenry and A. Bentley, determined by A.B. Hamon. Plants in wild. (F. McHenry).

A DIASPIDID SCALE (Quadraspidotus taxodii) - FLORIDA - New county records. District> County= collection data from Taxodium distichum (bald-cypress) plants: C> Marion= adults on leaves of all 3 plants on property at Silver Springs, May 21, 1980, collected by F. McHenry and A. Bentley (F. McHenry) and S> Charlotte= adults scattered on leaves along road in northern area (city not reported), July 28, collected by Z. Smith, both determined by A.B. Hamon (Z. Smith).

OBSCURE SCALE (Melanaspis obscura) - FLORIDA - New county records. District> County= collection data from Quercus sp. (oak) trees: C> Hernando= adults on stems in wild near Brooksville, May 15, 1980, collected by R. Phillips and A. Bentley (R. Phillips, A. Bentley); and Volusia= on stems around lake near Enterprise, May 28, collected by C. Roberts and A. Bentley. Both determined by A.B. Hamon (C. Roberts).

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

AN INSECT FUNGUS (Entomophthora phytonomi) - VIRGINIA - New State and county records. District> County= collection data from Hypera postica (alfalfa weevil) larvae on alfalfa: W> Rockbridge= near Lexington, May 9, 1980, collected by L. M. Los, determined by D.G. Harcourt (L.M. Los); E> Essex= near Tappahannock, May 16, collected by R.C. Haston; C> Fluvanna= near Scottsville, May 15, collected by R.C. Watts; N> Madison= near Rochelle, May 15, collected by J.R. Grove; and SW> Montgomery= near Blacksburg, date not given, collected by L.M. Los. All determined by L.M. Los. (L.M. Los).

INSECTS

A BRACONID WASP (Microctonus aethiopoides) - TENNESSEE - New county records. District> County= collection data from Hypera postica (alfalfa weevil) adults on alfalfa: East Tennessee> Knox= reared from adults collected at university farm, April 18, 1980, Sevier= reared from adults collected near Seymour community, April 21; and Jefferson= collected near Chestnut Hill community, April 28; collected and determined by L. Klostermeyer. (M.E. Cooper). KENTUCKY - New county record. District> County= collection data from Hypera postica (alfalfa weevil) adults on alfalfa: Bluegrass> Scott= at New Town, May 6, 1980, by J. Parr, and determined by T.L. Burger. (T.L. Burger). WISCONSIN - New county record. District> County= collection data from Hypera postica (alfalfa weevil) adults on alfalfa: NC> Marathon= at Marathon, May 23, 1980, by C. Neff, and determined by T.L. Burger. (T.L. Burger). See page 611 for corrections.

A MYMARID WASP (*Anaphes flavipes*) - VIRGINIA - New county records. District> County= collection data from *Oulema melanopus* (cereal leaf beetle) larvae on oats: E> King and Queen= parasitized 50-60% of eggs near Walkerton, May 5, 1980, collected by L. Westermann and J. Tate; C> Buckingham= eggs parasitized near Marshall, May 12, collected by B. Bailey; Louisa= eggs parasitized near Ferncliff, May 14, collected by T. Bailey; Caroline= eggs parasitized near Poplar Inn, May 14, collected by T. Bailey; SE> Prince George= eggs parasitized near Bland, May 14, collected by D. Gregory; and W> Rockbridge= parasitized 50% of eggs near Steeles Tavern, May 28, collected by J. Tate. All determined by J. Tate. (G.L. Clement).

AN APHIDIID WASP (*Lysiphlebus testaceipes*) - OKLAHOMA - District> County= status week ending August 15: Panhandle> Texas= parasitism of *Schizaphis graminum* (greenbug) on sorghum ranged 3-10% in most fields checked and will increase. (D.C. Arnold).

A WEEVIL (*Rhinocyllus conicus*) - CALIFORNIA - District> County= status week of August 11: Siskiyou-Shasta> Siskiyou= on *Cirsium arvense* (Canada thistle) near Mount Shasta City. Well established on *Carduus nutans* (musk thistle) in area, heavy weevil pressure probably caused weevils to move to new host. (K. Brunetti).

FEDERAL AND STATE PROGRAMS

DISEASES

OAT STEM RUST (*Puccinia graminis* f.sp. *avenae*) - WISCONSIN - First of season. District> County= prevalence on oats week ending August 1: SE> Washington= light. (O.L. Lovett).

INSECTS

GRASSHOPPERS - OKLAHOMA - New county record. District> County= *Boopedon auriventris* collection data: SE> McCurtain= 4 adults from clearings in forested area in State park, June 10, 1980, by D.J. Arnold and D.C. Arnold, and determined by D.C. Arnold. (D.C. Arnold). KANSAS - District> County= status week ending July 25: SE> Greenwood, Wilson (up to 25 rows), Woodson, Bourbon, and EC> Miami= mostly *Melanoplus differentialis* damaged margins of scattered soybean fields (S.C. White); NW area> on alfalfa: damaged scattered fields (G.E. Sanden), NC> Jewell= mostly all *Melanoplus differentialis* defoliated 18 m into edge of field [41 cm tall] (K.O. Bell, Jr.), and SC> Barber, Edwards, Pratt, Kingman, SE> Elk, Greenwood, Wilson, Bourbon, and EC> Miami= no serious damage (G.A. Salisbury, S.C. White).

JAPANESE BEETLE (*Popillia japonica*) - OHIO - District> County= adults per sweep of soybeans [flower at node below uppermost node with completely unrolled leaf] July 21: NE> Wayne= light, 0.03. (R. Wadleigh); adults per shoot of grapes July 23: NE> Wayne= 7.36, defoliation heavy. (K. Miller).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= percent larval infestations week ending August 15: SW> Yuma= 1-5%, SE> Graham= 0-16%, and C> Maricopa= 4.8%; larvae per pheromone trap per day: C> Maricopa= 1-14, Pinal= 16-52, and SW> Yuma= 0.5-20. (C. Chandler et al.).

DETECTION

NEW STATE RECORDS

DISEASES

AMERICAN WHEAT STRIATE MOSAIC VIRUS - NEBRASKA - Franklin County. (p. 593).

HEAD SMUT (Sphacelotheca reiliana) - MINNESOTA - Wadena County. (p. 593).

AN INSECT FUNGUS (Entomophthora phytonomi) - VIRGINIA - Rockbridge County. (p. 608).

INSECTS

A WEEVIL (Mecinus pyrastrer) - NEW YORK - District> County= collection data: SE> Dutchess= 1 adult male collected from Trifolium sp. (clover) at Wappingers Falls, February 2, 1980, by M. Brinckerhoff, and determined by E.R. Hoebeke. Known from stem of Rhododendron (an azalea) and in galls at base of Plantago and in several genera of the Scrophulariaceae. (E.R. Hoebeke).

NEW COUNTY RECORDS

DISEASES

CORN LETHAL NECROSIS - NEBRASKA - Nuckolls and Red Willow. (p. 594).

AN INSECT FUNGUS (Entomophthora phytonomi) - VIRGINIA - Essex, Fluvanna, Madison, and Montgomery. (p. 608).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ILLINOIS - Mason and Massac, MARYLAND - Talbot, Cecil, and Frederick. (p. 607-608).

INSECTS

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - VIRGINIA - Rockbridge, Montgomery, Bath, Highland, and Warren, WEST VIRGINIA - Greenbrier, and Pendleton. (p. 599).

APPLE MAGGOT (Rhagoletis pomonella) - OREGON - Washington. (p. 606).

A BRACONID WASP (Microctonus aethiopoides) - TENNESSEE - Jefferson, Sevier, and Knox; KENTUCKY - Scott; and WISCONSIN - Marathon. (p. 608).

CALIFORNIA RED SCALE (Aonidiella aurantii) - FLORIDA - St. Lucie. (p. 606).

COCONUT SCALE (Aspidiotus destructor) - FLORIDA - Okaloosa. (p. 607).

A DIASPIDID SCALE (Aonidomytilus solidaginis) - FLORIDA - Marion. (p. 607, 608).

A DIASPIDID SCALE (Chionaspis nyssae) - FLORIDA - Putnam. (p. 607).

- A DIASPIDID SCALE (Circulaspis fistulella) - FLORIDA - Brevard. (p. 599).
- A DIASPIDID SCALE (Haliaspis uniolae) - FLORIDA - Brevard and Escambia. (p. 598).
- A DIASPIDID SCALE (Pseudoparlatoria parlatoroides) - FLORIDA - Citrus. (p. 607).
- A DIASPIDID SCALE (Quadraspidotus taxodii) - FLORIDA - Charlotte (p. 608) and Marion (p. 607, 608).
- FLORIDA RED SCALE (Chrysomphalus aonidum) - FLORIDA - Okaloosa. (p. 607).
- A GRASSHOPPER (Boopedon auriventris) - OKLAHOMA - McCurtain. (p. 609).
- A MOSQUITO (Aedes aurifer) - OHIO - District> County= collection data from light trap: EC> Tuscarawas= collected at Gnadenhutten, June 28, 1980, by E. Paulus, determined by R. Restifo. (S. Gordon).
- A MOSQUITO (Aedes dorsalis) - OHIO - District> County= collection data from light trap: EC> Tuscarawas= collected at Newport, June 28, 1980, by E. Paulus, determined by R. Restifo. (S. Gordon).
- A MOSQUITO (Aedes grossbecki) - OHIO - District> County= collection data from roadside rest area: C> Delaware= 7 adults collected during 15 minute long biting count at Sunbury, July 2, 1980, by M.A. Parsons, determined by R. Restifo. (R. Wadleigh).
- A MYMARID WASP (Anaphes flavipes) - VIRGINIA - King and Queen, Louisa, Buckingham, Caroline, Prince George, and Rockbridge. (p. 609).
- OBSCUR E SCALE (Melanaspis obscura) - FLORIDA - Volusia and Hernando. (p. 608).
- WESTERN CORN ROOTWORM (Diabrotica virgifera) - KENTUCKY - Henderson and Butler. (p. 597).
- OTHER NEW RECORD
- PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ILLINOIS - Champaign. (p. 607)

CORRECTIONS

CPPR 5(30):564 and 568 - A BRACONID WASP (Microctonus aethiopoides) - New State records (indicated by asterisks on p. 564) are only for Iowa and Wisconsin. Others (delete asterisks) should be additional county records: IL - SE> Edwards, IN - SC> Monroe, KY - N> Oldham, MI - Upper Peninsula> Delta, and MO - NC> Schuyler. The first braconid wasp on p. 564 should also have Illinois, Indiana, Kentucky, Michigan, and Missouri deleted. Make other changes to chart on p. 564 as indicated.

State	District> County	Town or township	Collection date	Collector	Determiner
IL	SE> Pope	T13S R5E section 13	May <u>2</u>	R. Larson	T.L. Burger

State	District> County	Town or township	Collection date	Collector	Determiner
IL	SE> Pope	T13S R5E section 13	May <u>2</u>	R. Larson	T.L. Burger
KY	N> Campbell	Peach Bloom	<u>May</u> 5	V. Johnson	W.H. Day, R. J. Dysart, R.W. Fuester
PA	SW> Washington	Jefferson	May 16	M. Garra	R.J. Dysart
VA	N> Frederick	Stonewall	Apr 23	V. <u>Hoyos</u>	R.J. Dysart

CPPR 5(30):565 - A EULOPHID WASP (*Tetrastichus incertus*) - ... determined by T.L. Burger ... should read ... determined by R.J. Dysart

CPPR 5(30):565 - AN ICHNEUMONID WASP (*Bathyplectes anurus*) - VIRGINIA - Collector column: Change "V. Heyos" to "V. Hoyos."

CPPR 5(30):565-566 - AN ICHNEUMONID WASP (*Bathyplectes curculionis*) - Make changes as indicated.

State	District> County	Town or township	Collection date	Collector	Determiner
IL	E> Kankakee	St. Anne	May 23	S. Sanderson	T.L. Burger
IA	WC> Sac	Walt Lake	May 22	G. Wallerich	T.L. Burger
WI	NC> Marathon	Rib Mountain	Jun 4	C. Neff	T.L. Burger
WI	NE> Shawano	<u>Richmond</u>	May 29	H. Line	T.L. Burger

TRAP COLLECTIONS

[illegible]

TRAP COLLECTIONS

	°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
TENNESSEE																				
Franklin 8/22-28			B		8		2	23				3						11		7
Maury 8/22-28			B		385	2	27	53	1		283	2	75		15				3	54
Franklin 8/22-28			P									2								
Maury 8/22-28			P									0								
VIRGINIA																				
Painter 8/17-23			B		509	49	608	115			125	656				52	16		14	141
WEST VIRGINIA																				
Pipestem 8/23			B		3						1									
WISCONSIN																				
Mazomanie 8/20-26			B		32	1	4				71								0	
Racine 8/19-25			B		99		51				71									

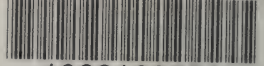
METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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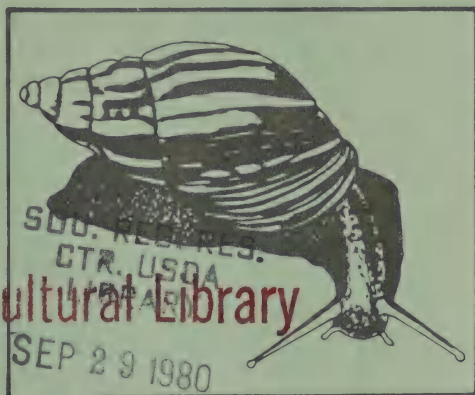
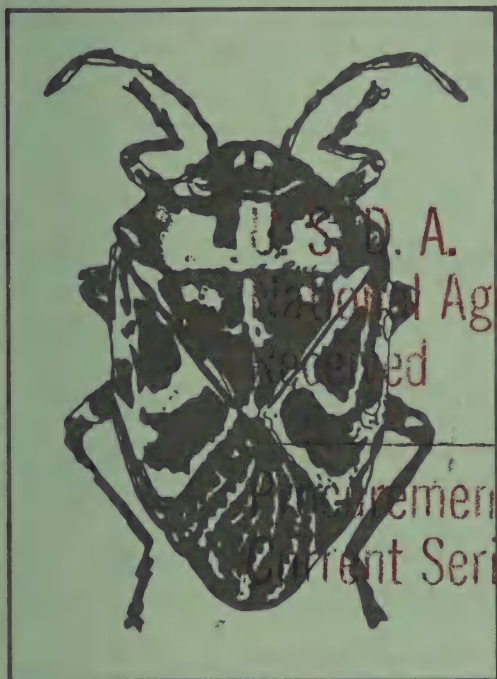
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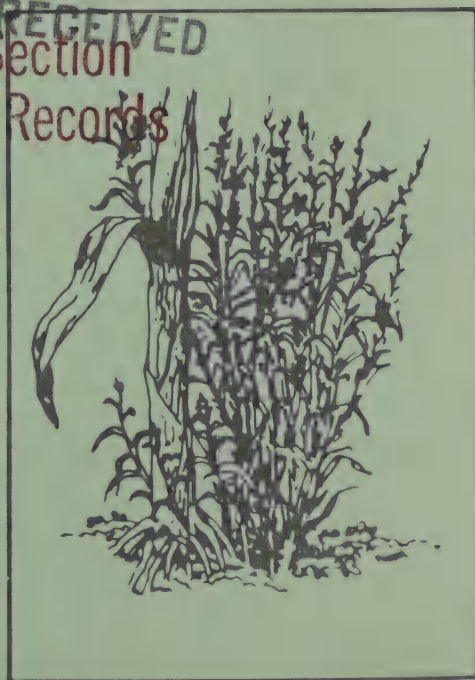
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Vol. 5

No. 33



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Plant Protection Section
Current Serial Records

This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR
New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

SOUTHERN LEAF BLIGHT and other factors caused high levels of necrosis on field corn in Indiana. (p. 617).

WESTERN CORN ROOTWORM and NORTHERN CORN ROOTWORM sharply increased on corn in many districts of Illinois, especially in east-southeast and southwest districts. (p. 619-620).

Detection

● A MIRID PUG in New York is new for the Western Hemisphere. (p. 628).

New State records include POTATO STEM BORER in Massachusetts (p. 619), EYESPOT FOOT ROT in Kansas (p. 621), GRAPE CANE GALLMAKER in Tennessee (p. 626), a WHITEFLY in Florida (p. 627), and a SIRICID WASP in South Carolina (p. 629).

For new county records see p. 629.

First transmission of PINEWOOD NEMATODE by cerambycid adults to red pine. (p. 627).

Some First Occurrences of the Season

HEAD SMUT on corn in Kansas.

Reports in this issue are for the week ending September 5 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

SOUTHERN LEAF BLIGHT (*Cochliobolus* (*Bipolaris*) *heterostrophus*) - INDIANA - *Bipolaris maydis* stage alone or combined with senescence and STEWART'S WILT (*Erwinia stewartii*) caused high levels of necrosis on field corn. Survey on field corn in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	not seen	not seen	dent
WC> Parke	not seen	not seen	dough
WC> Clay	21	5	dough
WC> Owen	not seen	not seen	dent
SW> Daviess	not seen	not seen	all dent
SW> Knox	8	1	all dent
SW> Knox	99	35	dent
SW> Gibson	8	trace	all dent
SW> Posey	95	5	dent
SW> Warrick	42	3	dent
SW> Spencer	99	15	all dent
SW> Dubois	not seen	not seen	dough
SW> Martin	not seen	not seen	all dent
SC> Lawrence	70	5	all dent
C> Morgan	14	1	dent

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus* (*Bipolaris*) *carbonum*) - INDIANA - District> County= prevalence/severity of *Bipolaris zicola* on corn [dough], week ending August 16: WC> Parke= 1%/trace in 1 of 14 fields. (R.A. Schall).

COMMON SMUT (*Ustilago maydis*) - INDIANA - Survey on corn in 1 field each, week ending August 16 (P.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Montgomery	1	dent
WC> Parke	trace	dough
WC> Clay	trace	dough
WC> Owen	trace	dent
SW> Daviess	2	all dent
SW> Knox	1	all dent
SW> Gibson	trace	all dent
SW> Posey	trace	dent
SW> Warrick	trace	dent
SW> Spencer	trace	all dent
SW> Dubois	trace	dough
SW> Martin	1	all dent
SC> Lawrence	not seen	all dent
C> Morgan	not seen	dent

KANSAS - Common smut continued most prevalent corn disease. District> County= prevalence on corn: C> McPherson and Rush= 4-20% in all fields surveyed. (T. Sim, IV).

COMMON MAIZE RUST (*Puccinia sorghi*) - INDIANA - Survey on corn leaves in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	50	trace	dent
WC> Parke	40	trace	dough
WC> Clay	3	trace	dough
WC> Owen	12	trace	dent
SW> Daviess	24	trace	all dent
SW> Knox	44	trace	all dent
SW> Gibson	8	trace	all dent
SW> Posey	18	trace	dent
SW> Warrick	4	trace	dent
SW> Spencer	46	trace	all dent
SW> Dubois	not seen	not seen	dough
SW> Martin	12	trace	all dent
SC> Lawrence	8	trace	all dent
C> Morgan	4	trace	dent

HEAD SMUT (*Sphacelotheca reiliana*) - KANSAS - First of season. District> County= prevalence on sorghum [flower to hard dough]: SW> Grant= trace in several fields. (T. Sim, IV). MINNESOTA - District> County= status on corn: C> Wadena= confirmed in Thomastown Township. New State quarantine on August 26. (D. Sreenivasam).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - District> County= prevalence on sorghum [flower to hard dough]: SW> Grant= trace to 2%, common in many fields. (T. Sim, IV).

HOLCUS SPOT (*Pseudomonas syringae*) - KANSAS - District> County= prevalence on sorghum in 1 field each: SC> Pawnee, SW> Hodgeman, and Ford= trace. (T. Sim, IV).

CORN BROWN SPOT (*Physoderma maydis*) - INDIANA - District> County= prevalence/severity on corn [dent], week ending August 16: SW> Posey= trace/50% in 1 of 14 fields. (R.A. Schall).

STEWART'S WILT (*Erwinia stewartii*) - INDIANA - Combined with senescence and very often Ripolaris maydis stage of SOUTHERN LEAF BLIGHT (*Cochliobolus (Ripolaris) heterostrophus*), very prevalent in southwestern area. Necrosis occasionally heavy on commercial corn there and very heavy on popcorn in Dubois County. Survey on field corn in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	8	trace	dent
WC> Parke	not seen	not seen	dough
WC> Clay	3	trace	dough
WC> Owen	05	10	dent
SW> Daviess	25	5	all dent
SW> Knox	3	1	all dent
SW> Gibson	20	1	all dent
SW> Posey	4	trace	dent
SW> Warrick	68	5	dent
SW> Spencer	not seen	not seen	all dent
SW> Dubois	90	45	[dough] popcorn
SW> Martin	99	5	all dent
SC> Lawrence	not seen	not seen	all dent
C> Morgan	not seen	not seen	dent

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence of red leaf on sorghum: SW> Grant= trace in 1 field. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - INDIANA - District> larvae on corn week of August 21: N> all sizes, from 2nd instar in ear tips to last instar and occasional pupa in ears and stalks. Accurate estimate not yet possible because of their small size. Will probably increase because adults still present. (R. W. Meyer).

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - NEW MEXICO - District> County= status of this species and CORN EARWORM (*Heliothis zea*) on corn week ending August 22: NE> Quay= severe damage in 3 fields northeast of Tucumcari made harvest impractical. (C. Heninger). Larvae on corn [ears] week ending August 29: NE> Roosevelt and Curry= third generation moderate to heavy. (J. Durkin).

FALL ARMYWORM (*Spodoptera frugiperda*) - FLORIDA - District> County= status of mainly this species and CORN EARWORM (*Heliothis zea*) on sorghum August 19: NW> Jackson= infested buds of young plants, not yet headed out, in fields near Greenwood. (W.B. Tappan).

POTATO STEM BORER (*Hydroecia micacea*) - MASSACHUSETTS - New State record. County= collection data from Zea mays (corn): Hampshire= larvae, 3rd and 4th instars, at Hadley, June 5 and 11, 1980, collected by D.M. Ferro, determined by A. Muka, and confirmed by D.M. Weisman. (S.A. Maisey).

CORN ROOTWORMS (*Diabrotica* spp.) - ILLINOIS - WESTERN CORN ROOTWORM (*Diabrotica virgifera*) and NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) increased in every district except west. State average increased from 0.02 to 1.75 per plant since 1979, 10 fields surveyed at random in each county. (A.M. Agnello).

Average *Diabrotica virgifera*
and *Diabrotica longicornis* per plant

District> County	1978	1979	1980
NW> Bureau	1.04	2.10	2.71
NW> Lee	0.54	1.19	3.18
NW> Mercer	0.69	4.02	0.93
NW> Ogle	1.59	1.02	3.90
NW> Stephenson	1.00	2.41	4.02
NW> Whiteside	1.12	1.93	1.98
Average	0.88	2.10	2.76
NE> Boone	1.25	0.75	4.52
NE> De Kalb	1.78	0.56	4.91
NE> La Salle	0.96	1.21	3.30
Average	1.32	0.84	4.24
W> Adams	0.20	0.61	1.07
W> Henderson	0.64	1.30	0.44
W> Knox	0.99	1.17	0.58
W> McDonough	0.42	0.44	0.67
W> Warren	0.85	2.09	1.51
Average	0.64	1.12	0.85

Average *Diabrotica virgifera*
and *Diabrotica longicornis* per plant

District> County	1978	1979	1980
C> Logan	1.94	1.56	2.23
C> McLean	0.89	1.35	1.57
C> Peoria	1.10	1.10	3.56
C> Woodford	1.97	3.14	3.76
Average	<u>1.47</u>	<u>1.70</u>	<u>2.78</u>
F> Champaign	0.36	2.08	2.39
E> Iroquois	0.16	0.41	0.53
E> Kankakee	0.16	0.74	3.67
E> Livingston	1.03	1.09	3.83
E> Vermilion	1.24	0.45	0.84
Average	<u>0.77</u>	<u>0.95</u>	<u>2.25</u>
WSW> Christian	0.10	0.35	0.47
WSW> Greene	0.12	0.77	2.72
WSW> Macoupin	0.09	0.46	0.79
WSW> Montgomery	0.34	0.98	1.29
WSW> Morgan	0.09	0.07	2.12
Average	<u>0.15</u>	<u>0.53</u>	<u>1.48</u>
FSE> Clark	0.27	0.34	2.25
ESE> Jasper	0.16	0.22	1.17
ESE> Marion	0	0.15	0.23
ESE> Shelby	0	0.36	2.02
Average	<u>0.11</u>	<u>0.27</u>	<u>1.42</u>
SW> Randolph	0.03	0.04	0.91
SW> St. Clair	0.01	0.05	0.05
SW> Union	0.01	0.03	0
SW> Washington	0.03	0.04	0.13
Average	<u>0.02</u>	<u>0.04</u>	<u>0.27</u>
SE> Franklin	0	0.71	0.04
SE> Gallatin	0.12	0.25	0.46
SE> Wabash	-	0.16	0.70
SE> Wayne	0	0.04	0.08
SE> White	0.01	0.06	0.08
Average	<u>0.03</u>	<u>0.24</u>	<u>0.27</u>

GREENBUG (*Schizaphis graminum*) - NEW MEXICO - District> County= status on sorghum week ending August 29: NE> Curry= increased in several fields in Clovis area, damage extensive, reduced yields and quality. (J. Durkin).

CHINCH BUG (*Blissus leucopterus leucopterus*) - MISSOURI - District> County= counts per sorghum [completely headed and nearly mature] plant: SE, NE, and NC areas> heavy, and NE> Ralls and NC> Grundy= mostly adults 200-600. (R.E. Munson).

SMALL GRAINS

DISEASES

TAN SPOT (*Pyrenophora trichostoma*) - KANSAS - District> County= prevalence on wheat: SC> Pawnee= 100% in volunteer field. (T. Sim, IV).

EYESPOT FOOT ROT (*Pseudocercospora herpotrichoides*) - KANSAS - New State record. District> County= collection data from *Triticum aestivum* (wheat): C> Lincoln= prevalence 10% in 2 fields at Lincoln, May 28 and June 12, 1980, collected and determined by W.G. Willis, and confirmed by R.J. Cook. Fairly intensive surveys conducted in mid-June, no further infected fields found, unknown how serious disease will become. (T. Sim, IV).

INSECTS

GREENBUG (*Schizaphis graminum*) - IDAHO - District> County= counts per plant August 7: E> Bingham= 2.2 on wheat and 1.5 on barley [soft dough] at Aberdeen. (L.E. Sandvol).

ENGLISH GRAIN APHID (*Macrosiphum avenae*) - IDAHO - District> County= counts per plant August 7: E> Bingham= 1.6 on wheat and 0.2 on barley [soft dough] at Aberdeen. (L.E. Sandvol).

CORN LEAF APHID (*Rhopalosiphum maidis*) - IDAHO - District> County= counts per plant August 7: E> Bingham= 0.2 on wheat and 0.3 on barley [soft dough] at Aberdeen. (L.E. Sandvol).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Still most common alfalfa disease. District> County= prevalence/severity [host height] on alfalfa: SC> Pawnee= trace to 15%/trace [20-36 cm] and SW> Hodgeman= 100%/trace [48 cm]. (T. Sim, IV).

INSECTS

ALFALFA CATERPILLAR (*Colias eurytheme*) - NEW MEXICO - District> County= status on alfalfa week ending August 22: NE> Quay= larvae, all instars, 4-100+ in Tucumcari area and 5-20 in San Jon area, adults very heavy. (C. Heninger).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *soiae*) - INDIANA - Survey on soybeans in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Montgomery	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Parke	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

District> County	Prevalence (%)	Host stage
WC> Clay	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Owen	not seen	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Daviess	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
SW> Knox	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Gibson	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Vanderburgh	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Warrick	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SW> Spencer	not seen	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Dubois	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Martin	not seen	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SC> Lawrence	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Morqan	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

PHYLLOSTICTA LEAF SPOT (*Phyllosticta sojaecola*) - INDIANA - District> County= prevalence/severity on soybeans [pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf] week ending August 16: SW> Martin= 1%/trace in 1 of 14 fields. (R.A. Schall).

SOYBEAN BROWN SPOT (*Septoria glycines*) - INDIANA - Survey on soybeans in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	70	8	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Parke	99	25	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Clay	90	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Owen	10	5	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Daviess	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
SW> Knox	90	15	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Gibson	60	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Vanderburgh	40	5	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Warrick	not seen	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes

District> County	Prevalence (%)	Severity (%)	Host stage
SW> Spencer	90	10	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Dubois	9	5	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Martin	99	20	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SC> Lawrence	99	15	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Morgan	95	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - INDIANA - Survey on soybean leaves in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	30	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Parke	99	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Clay	99	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Owen	80	trace	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Daviss	80	trace	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
SW> Knox	95	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Gibson	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Vanderburgh	99	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Warrick	not seen	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SW> Spencer	not seen	not seen	nod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Dubois	10	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Martin	99	2	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SC> Lawrence	trace	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Morgan	99	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - KANSAS - District> County= prevalence on soybeans: SW> Haskell= 20% in 1 field. (T. Sim, IV). INDIANA - Survey on soybean leaves in 1 field each, week ending August 16 (P.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Parke	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Clay	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Owen	not seen	not seen	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Daviess	not seen	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
SW> Knox	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Gibson	trace	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Vanderburgh	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Warrick	not seen	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes
SW> Spencer	5	trace	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Dubois	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Martin	not seen	not seen	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SC> Lawrence	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Morgan	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

SOYBEAN MOSAIC VIRUS - INDIANA - Survey on soybeans in 1 field each, week ending August 16 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Montgomery	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Parke	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Clay	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
WC> Owen	1	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Daviess	not seen	open flower at 1 of 2 uppermost nodes on main stem with fully developed leaf
SW> Knox	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Gibson	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Vanderburgh	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Warrick	not seen	5 nodes on main stem with fully developed leaves beginning with unifoliate nodes

District> County	Prevalence (%)	Host stage
SW> Spencer	not seen	pod 2 cm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Dubois	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
SW> Martin	not seen	pod 5 mm at 1 of 4 uppermost nodes on main stem with fully developed leaf
SC> Lawrence	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
C> Morgan	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

INSECTS

CORN EARWORM (*Heliothis zea*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week ending August 25: SW> 2nd and 3rd instars 2-6 (4) [beginning to full pod] and 5-10% in 5f (G. Galbreath) and C> 1st to 5th instars 6-24 (14) [beginning pod] and 5-20% in 6f (W.J. Roberts). DELAWARE - District> County= status on soybeans week ending August 29: S> Sussex= larvae heavy; adults up to 150 per night in light trap. (D.F. Bray).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week ending August 25: SW> 3rd to 5th instars 8-30 (18) [beginning to full pod] and 5-10% in 6f (G. Galbreath) and SE> 1st to 5th instars 1-15 (5.5) [beginning seed] and 5-30% in 6f (K.L. Davenport).

BEET ARMYWORM (*Spodoptera exigua*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [beginning pod] and percent leaf loss week of August 25: SE> 1st instar 21 (21) and 10% in 1 field. (W.M. Fortson).

SOYBEAN LOOPER (*Pseudoplusia includens*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week ending August 25: SW> 4th and 5th instars 3 (3) [beginning pod] and 5-10% in 1f (G. Galbreath), SE> 1st to 4th instars 1-3 (2) [beginning seed] and 10-20% in 4f (K.L. Davenport), and C> 1st to 5th instars 1-16 (4.7) [beginning pod] and 2-20% in 9f (W.J. Roberts, E.L. Coker).

GREEN CLOVERWORM (*Plathypena scabra*) - GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [full pod] and percent leaf loss week ending August 25: SE> 1st instar 2 (2) and 10% in 1 field. (W.M. Fortson).

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - ILLINOIS - Adults continued to cause heavy defoliation and pod damage on soybeans statewide. (A.M. Agnello).

WHITEFRINGED BEETLES (*Graphognathus* spp.) - GEORGIA - Area> adults (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week ending August 25: SW> 1-18 (5.5) [beginning to full pod] and 5-10% in 6f (G. Galbreath) and C> 1 (1) [beginning pod] and 0-5% in 2f (W.J. Roberts).

THREECORNERED ALFALFA HOPPER (*Spissistilus festinus*) - GEORGIA - Area> counts (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week ending August 25: SW> adults 1-5 (2.5) [beginning to

full pod] and 5-10% in 6f (G. Galbreath), SE> threecornered alfalfa hopper nymphs to adults 1-3 (1.7) [full bloom to beginning seed] and 5-10% in 3f (W.M. Fortson, K.L. Davenport), and C> adults 1-3 (1.4) [beginning pod] and 2-20% in 5f (W.J. Roberts, E.L. Coker).

GREEN STINK BUG (*Acrosternum hilare*) - GEORGIA - Area> adults (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week ending August 25: SW> 1-4 (2) [beginning to full pod] and 5-10% in 3f (G. Galbreath), SE> 1 (1) [beginning seed] and 15% in 1f (K.L. Davenport), and C> 1 (1) [beginning pod] and 0-20% in 2f (W.J. Roberts).

BROWN STINK BUG (*Euschistus servus*) - GEORGIA - Area> adults (average) per 4.6 row m of soybeans [host stage] and percent leaf loss in number of fields (f) week of August 25: SW> 1-3 (1.7) [beginning to full pod] and 5-10% in 3f (G. Galbreath) and C> 2-3 (2.5) [beginning pod] and 5-20% in 2f (W.J. Roberts).

POTATOES, TOMATOES, PEPPERS

INSECTS

GREEN PEACH APHID (*Myzus persicae*) - IDAHO - Collections in yellow trap pans and leaf counts (L.E. Sandvol):

District> County	August 7		August 15		City
	Yellow trap pan counts per 7 days	Counts per 25 leaves	Yellow trap pan counts per 7 days	Counts per 25 leaves	
E> Bingham	0	0	0	0	Aberdeen
E> Power	0	1	0	0	Arbon Valley
E> Bingham	0	2	0	0	Ft. Hall
E> Bingham	0	0	0	0	Firth
E> Bonneville	1	0	0	2	Idaho Falls
E> Bingham	0	0	0	0	Liberty

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - IDAHO - District> County= pheromone trap counts July 31 to August 13: SW> Canyon= 7 at Central Cove. (C.R. Baird). WASHINGTON - District> County= adults per trap August 12: NE> Spokane= 3.6 within city and 0.2 in Greenbluff orchards. (R. Proce, G. Kupferman).

SAN JOSE SCALE (*Quadrastpidiotus perniciosus*) - OREGON - Area> status on pears August 18-22: Rogue River Valley> last brood crawlers emerged, treatment recommended. (D.W. Berry).

SMALL FRUITS

INSECTS

GRAPE CANE GALLMAKER (*Ampelodlypter sesostris*) - TENNESSEE - New State record. District> County= collection data from *Vitis labrusca* (fox grape): Central Basin> De Kalb= collected on 'Concord' at nursery near Center Hill Dam, May 12, 1980, by J. Bogard and determined by D.R. Whitehead. Host in nursery 2 years. (M.E. Cooper).

A BUPRESTID BEETLE (*Agrilus deraeofasciatus*) - NEW YORK - New county record. District> County= Long Island> Queens= 1 adult male collected on pumpkin (*Cucurbita pepo*) in garden at Ozone Park, June 28, 1979, by K. Uchida, determined by E.R. Hoebeke, and confirmed by W.F. Barr and H. Hespeneheide. Known to damage *Vitis* spp. (grape) vines and infest dying *Pistacia terebinthus* (Cyprus-turpentine) branches in Europe. (E.R. Hoebeke).

ORNAMENTALS

INSECTS

A WHITEFLY (*Bemisia berbericola*) - FLORIDA - New State record. District> County= collection data from *Myrica cerifera* (wax myrtle) plant: S> Martin= pupae moderately infested stems and leaves at residence at Palm City, February 14, 1979, collected by E. Campbell, determined by A.B. Hamon, and confirmed by L.M. Russell. Also collected on February 8 and March 10 at different sites. Plants established. (E. Campbell).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - IOWA - New county records. District> County= collection data from *Pinus* spp. (pines): SE> Lee= on *Pinus strobus* (eastern white pine) near Farmington, February 27, 1980, by D.J. Williams; and NC> Floyd= on *Pinus nigra* (Austrian pine) at Charles City, April 11, by C.R. Stoltzenow. Both determined by D.J. Williams and confirmed by A.S. Foudin. Trees died during fall of 1979.

Iowa - First record of pinewood nematode transmission by cerambycid adults to red pine. District> County= status: SE> Lee= 5 larvae of SOUTHERN PINE SAWYER (*Monochamus titillator*) reared to adults in logs from dead 40-year-old trees of *Pinus strobus* heavily infected by this nematode. Two male and 3 female beetles, which emerged between March 12 and April 14, 1980, found infected with about 100-300 dauer larvae. One male and 2 female beetles allowed to feed on three 3-year-old *Pinus resinosa* (red pine) for 30 days and 3 eastern white pines for 7 days. Average of 183 nematodes of this species infected two 10-cm sections of 2 of the red pines; did not infect third red pine and 2 others used as controls plus all eastern white pines. Dauer larvae isolated under elytra and within abdominal cavities of beetles. No nematode larvae in preliminary sections through thorax of 2 female beetles. (D.J. Williams).

INSECTS

DICTYOSPERMUM SCALE (*Chrysomphalus dictyospermi*) - FLORIDA - New county record. District> County= collection data from *Pandanus* sp. (a screw pine) tree: S> Collier= moderate on leaves at residence at Immokalee, May 16, 1980, collected by K. Delate and determined by A.B. Hamon. Plants on property 1+ years. (K. Delate).

A DIASPIDID SCALE (*Diaspidiotus liquidambaris*) - FLORIDA - New county record. District> County= collection data from *Liquidambar styraciflua* (sweetgum) plant: S> Indian River= adults on stems and leaves at residence at Oslo, June 17, 1980, collected by E. Campbell, and determined by A.B. Hamon. Plants on property 1+ years. (E. Campbell).

MAN AND ANIMALS

INSECTS

A MOSQUITO (*Culiseta silvestris minnesotae*) - OHIO - New county record. District> County= collection data from light trap: NC> Richland= 2 adults at Mansfield, July 21, 1980, by D. Parrott and B. Underwood, and determined by R. Restifo. (E. Peterson).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

AN APHELINID WASP (*Prospaltella lahorensis*) - FLORIDA - New county record. District> County= collection data for this introduced parasite of *Dialeurodes citri* (citrus whitefly) from X *Citrofortunella mitis* (calamondin): C> Orange= wasp larvae taken from 15-year-old tree in yard at Apopka, June 18, 1980, by P. Gibson and determined by B. Munir. Inoculum of parasite placed on property August 1979. (R. Brown).

A COLEOPHORID MOTH (*Coleophora klimeschiella*) - WASHINGTON - District> County= status August 14: SE> Whitman= case-bearing leaf feeding larvae seen on *Salsola iberica* (a Russian thistle) indicating successful overwintering and establishment from release of 368 larvae and adults June 26, 1979. (G. Piper).

A BUPRESTID BEETLE (*Sphenoptera jugoslavica*) - WASHINGTON - District> County= status August 8: NE> Spokane= first release for control of *Centaurea diffusa* (diffuse knapweed) at Spokane. (G. Piper).

A TEPHRITID FLY (*Urophora affinis*) - WASHINGTON - District> County= status July 17 to August 8: NE> Spokane and SE> Whitman= adults (1,429) released at 9 sites for biological control of *Centaurea diffusa* (diffuse knapweed) and *Centaurea maculosa* (spotted knapweed). (G. Piper).

DETECTION

NEW WESTERN HEMISPHERE RECORD

INSECTS

A MIRID BUG (*Psallus variabilis* (Fallen)) - NEW YORK - District> County= collection data: Long Island> Nassau= 1 adult female from unknown host in arboretum at Oyster Bay, June 6, 1979, by K. Uchida, determined by E.R. Hoebeke, and confirmed by T.J. Henry. Occurs widely throughout Europe. Known to feed on variety of hosts, including species of *Acer* (maple), *Alnus* (alder), *Crataegus*, *Rosa* (rose), *Quercus* (oak), *Salix* (willow), *Tilia* (linden), and more specifically *Fagus sylvatica* (European beech), *Ostrya carpinifolia* (European hornbeam), *Malus sylvestris* (apple), *Prunus spinosa* (a blackthorn), *Prunus domestica* (common plum), *Rubus idaeus* (a red raspberry), *Fraxinus excelsior* (European ash), *Viburnum opulus* (European cranberry-bush), and *Cytisus scoparius* (Scotch broom). (E.R. Hoebeke).

NEW STATE RECORDS

DISEASES

EYESPOT FOOT ROT (Pseudocercospora herpotrichoides) - KANSAS - Lincoln County. (p. 621).

INSECTS

GRAPE CANE GALLMAKER (Ampelogypter sesostris) - TENNESSEE - De Kalb County. (p. 626).

POTATO STEM BORER (Hydroecia micacea) - MASSACHUSETTS - Hampshire County. (p. 619).

A SIRICID WASP (Eriotremex formosanus) - SOUTH CAROLINA - District> County= collection data: S> Charleston found in swimming pool of private residence at Charleston, May 26, 1980, collected by J.F. Bollinger and determined by J.F. Bollinger and D.R. Smith. (C.S. Gorsuch).

A WHITEFLY (Bemisia berbericola) - FLORIDA - Martin County. (p. 627).

NEW COUNTY RECORDS

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - IOWA - Lee and Floyd. (p. 627).

INSECTS

AN APHELINID WASP (Prospaltella lahorensis) - FLORIDA - Orange. (p. 628).

A BUPRESTID BEETLE (Agrilus derasofasciatus) - NEW YORK - Queens. (p. 627).

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - Indian River. (p. 627).

DICTYOSPERMUM SCALE (Chrysomphalus dictyospermi) - FLORIDA - Collier. (p. 627).

A MOSQUITO (Culiseta silvestris minnesotae) - OHIO - Richland. (p. 628).

OTHER NEW RECORD

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - IOWA - First record of transmission by cerambycid adults to red pine. (p. 627).

CORRECTIONS

CPPR 5(31):576-580 and 585 - WHEAT LEAF RUST (Puccinia recondita f.sp. tritici), OAT CROWN RUST (Puccinia coronata f.sp. avenae), SEPTORIA COMPLEX (Septoria spp.), LOOSE SMUT (Ustilago nuda), LEAF BLOTCHES (Helminthosporium spp.), HALO BLIGHT (Pseudomonas cononafaciens), BARLEY YELLOW DWARF VIRUS, OAT STEM RUST (Puccinia graminis f.sp. avenae), and WHEAT STEM RUST (Puccinia graminis f.sp. tritici) - WISCONSIN - "... severity (estimate of plant damage represented by field average) ..." should read "... severity (estimate of plant damage on infected plants) ..." (O.L. Lovett).

TRAP COLLECTIONS

°C	precip.	Trap	ACw	Aw	BAW	BCw	FEW	CLO	CoM	ECR	FAW	GCw	PLR	SmC	TbH	TmH	ToP	VW	VWw
CALIFORNIA																			
				B	5	35	6	1						2	2				
	17-35	Bellota 9/1		B	13	211	4	2						1					
		Manteca 9/1																	
FLORIDA																			
		Gainesville 8/28-9/3		B	1	1	3	1			11	24		1					1
INDIANA (Counties)																			
		La Grange 8/26-9/1		B		6	23			200	116							16	
		Tippecanoe 8/23-9/29		B		8	6			260	0							8	
		Tippecanoe 8/29-9/4		5p					4					5					
KENTUCKY																			
		Lexington 8/27-9/2		B	21	3	71			30	47				2				102
NEW JERSEY																			
		Bridgeton 8/27-9/1		B		15	121	13		252	8							5	
		Fairton 8/27-9/1				8	175	7		35	10							2	
OHIO (Counties)																			
		Putnam 8/25-31		B	7	0	0			7	0							1	
		Wayne 8/28-9/3		B	39	10	21			11	1							12	
SOUTH CAROLINA (Averages)																			
		Long Creek 8/23-28		P					1.2					2.3					
		Mountain Rest 8/23-28		P					0.1					0.1					
TEXAS																			
		College Station 8/21-9/1		B	27	0	35	1			4			0	1	0	1		6
VIRGINIA																			
		Painter 8/24-30		B	230	21	109	149		93	202			2	55	20		5	36
WEST VIRGINIA																			
		Hurricane 8/11-18		R	6	4													
		Pipestem 8/17		B	2	4				3									
WISCONSIN																			
		Lancaster 8/30-9/2		B	4	1	5			1								-	
		Mazomanie 8/27-9/2		B	18	2	36			25								3	
ABBREVIATIONS:																			
B	Blacklight	ACw	Army Cutworm	CLO	Cabbage Looper				PLR	Pedbanded Leafroller				VCw	Variegated Cutworm				
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth				SmC	Saltmarsh Caterpillar				YAw	Yellowstriped Armyworm				
U	Ultraviolet	BAW	Beet Armyworm	ECR	European Corn Rorer				TbH	Tobacco Hornworm				TmH	Tomato Hornworm				
P	Pheromone	BCw	Black Cutworm	FAW	Fall Armyworm				ToB	Tobacco Budworm									
		CEW	Corn Earworm	GCw	Granulate Cutworm														

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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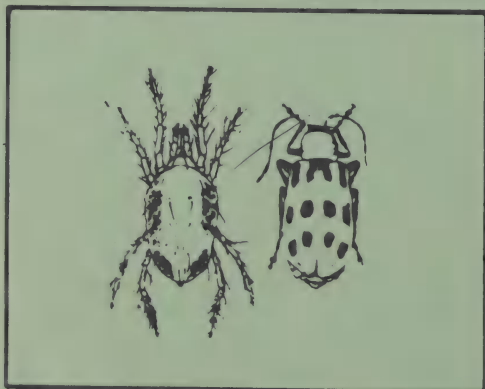


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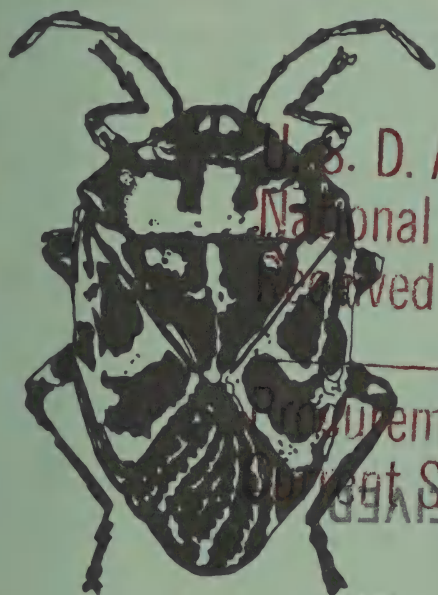
Plant Protection
and Quarantine

Cooperative Plant Pest Report

September 19, 1980

Vol. 5

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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER lighter on corn in North Carolina in 1980 than in 1979. (p. 634).

NORTHERN and WESTERN CORN ROOTWORMS increased on corn in almost all districts surveyed in Minnesota. Ratio of both species and lodging changed little. (p. 635).

Damage by CHINCH BUG to corn and grain sorghum in parts of Nebraska. (p. 635-636).

BOLL WEEVIL more serious on cotton in northwestern area of Florida in 1980 than in 1979. (p. 640).

Detection

● An EPHYDRID FLY, an ICHNEUMONID WASP, and a NERIID FLY in Hawaii are new to the Western Hemisphere. (p. 646).

New State records include CEPHALOSPORIUM STRIPE in Oklahoma (p. 636), VERTICILLIUM WILT on alfalfa in Wisconsin (p. 637), WESTERN FLOWER THRIPS in South Carolina (p. 641), a SPIDER MITE in Oregon (p. 641), a PIT SCALE in Florida (p. 642), BLACK TWIG BORER in South Carolina (p. 643), 2 STREPSIPTERA in Kentucky (p. 644), an EPHYDRID FLY in Hawaii (p. 646), and an OEDEMERID BEETLE in Florida (p. 647).

For new county records see p. 647-648.

Some First Occurrences of the Season

BOLL WEEVIL damage to cotton in Oklahoma.

Reports in this issue are for the week ending September 12 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus (Bipolaris) carbonum) - MISSOURI - Area> prevalence/severity of Bipolaris zicola on commercial corn [hard dough] week of August 25: NW and WC> 10-40%/1% of leaf involvement. (A. Foudin).

COMMON SMUT (Ustilago maydis) - KANSAS - Survey on corn week ending August 29 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Saline	trace	hard dough
C> Barton	trace	hard dough
SC> Harvey	trace	dent
NE> Marshall	1	hard dough
NC> Republic	40	dent
NC> Cloud	trace	dent

INDIANA - Common smut on corn week ending August 30 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
NC> Wabash	trace	all dent
NC> Kosciusko	1	dent
NC> Elkhart	1	dent
NE> Huntington	1	dent
NE> Whitley	not seen	dough
NE> Noble	trace	dough
NE> Steuben	trace	dent
NE> De Kalb	trace	all dent
NE> Allen	trace	all dent
NE> Allen	2	dent
NE> Adams	trace	all dent
EC> Jay	trace	dent
EC> Blackford	15	all dent

WEST VIRGINIA - District> County= common smut prevalence on corn [maturity] September 3: E> Greenbrier= averaged less than 5%. (G.L. Clement).

STALK ROTS (Fusarium spp.) - KANSAS - Became obvious in central and eastern areas. Survey on corn week ending August 29 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
C> Saline	trace	moderate	hard dough
NE> Marshall	2	severe	hard dough
NC> Republic	trace	moderate	dent
NC> Cloud	trace	moderate	dent

CORN GRAY LEAF SPOT (Cercospora zeae-maydis) - PENNSYLVANIA - District> County= prevalence on corn week of August 19: C> Huntingdon= trace. (D.T. Ware).

HOLCUS SPOT (Pseudomonas syringae) - KANSAS - Survey on sorghum week ending August 29 (T. Sim, IV):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
C> Saline	trace	light	flower
SC> Reno	trace	light	flower
SC> Edwards	100	light	soft dough
NC> Washington	trace	moderate	hard dough

SORGHUM LEAF STEAK (*Xanthomonas holcicola*) - KANSAS - Survey on sorghum week ending August 29: District> County [host stage] = prevalence/severity on sorghum: C> Saline [flower], Barton [flower to soft dough], SC> Stafford [flower to soft dough], Reno [flower], NE> Marshall [hard dough], and NC> Washington [hard dough] = trace/light. (T. Sim, IV).

BACTERIAL STRIPE (*Pseudomonas andropogoni*) - KANSAS - District> County = prevalence/severity on sorghum [host stage] week ending August 29: SC> Harvey = 1%/light [flower] and NC> Washington = trace/light [hard dough]. (T. Sim, IV).

CHARCOAL ROT (*Macrophomina phaseolina*) - KANSAS - District> County = prevalence on corn [dent] week ending August 29: SC> Edwards = 4% in 1 field. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NEBRASKA - District> County = status on corn August 15-21: NE> Dixon, Wayne, Antelope, and N> Holt = generally light, all stages in fields surveyed (Jarvi); and SW> Dundy, Lincoln, C> Dawson, E> Lancaster, Saunders, SE> Fillmore, E> York, Butler, and N> Wheeler = egg mass counts decreased considerably and fields surveyed indicate peak egg laying period over (Raun).

NORTH CAROLINA - European corn borer populations lighter in 1980 than in 1979 and 1978. Adults infested less than 10% of stalks in Piedmont and central Coastal Plain counties. Only 1% of stalks lodged in 15 randomly selected fields statewide August 28 to September 4. In 1979 about 25% of stalks infested during September and 5% of fields with economic lodging from borer damage. (T.M. Hunt). OHIO - District> County = percent cornstalks damaged by larvae August 25: SE> Monroe = 50% in 1 field, no larval counts made. (R. Wadleigh).

FALL ARMYWORM (*Spodoptera frugiperda*) - OKLAHOMA - District> County = status on sorghum week ending September 5: C> Payne = heavy. (D.C. Arnold). KANSAS - District> County = status on sorghum week ending September 5: EC> Geary, Morris, Osage, Miami, Douglas, C> Dickinson, Saline, Marion, McPherson, SC> Kiowa, and NE> Riley = none in heads checked, C> Dickinson = larvae in 50% of whorls in 1 late sorghum field, and SW> Ford and Gray = some substantial infestations in heads as far west as these counties. (K.O. Bell, Jr.). MARYLAND - Area> status on silage corn week ending August 29: C and W> damage heavy. (R. Hochmuth).

CORN EARWORM (*Heliothis zea*) - KANSAS - Economic or near economic infestations in sorghum [bloom to dough] heads in EC district> Miami, Osage, and C> McPherson Counties in addition to those reported earlier. District> County = larval averages per sorghum head in number of fields (f) week ending September 5: EC> Geary = 0.2 in 1f, Morris = 0.4 in 1f, Osage = 0.5-1.7 in 2f, Miami = 1.8-3.2 in 2f, Douglas = 0.5 in 1f, C> Dickinson = 0.1 in 1f, Saline = 0.2-0.7 in 2f, Marion = 0.7 in 1f, McPherson = 3.2 in 1f, NE> Riley = 0 in 1f (K.O. Bell, Jr.), and SC> Kiowa = 0 in 1f. (G.A. Salisbury). MARYLAND - Area> status on sweet corn week ending August 29: Eastern Shore> damage continued, several fields with almost 100% infestation. (R. Hochmuth).

CORN ROOTWORMS (Diabrotica spp.) - OHIO - Adult counts August 18-20 (R.W. Wadleigh):

District> County	<u>Diabrotica</u> <u>longicornis</u>	<u>Diabrotica</u> <u>undecimpunctata</u>	<u>Diabrotica</u> <u>virgifera</u>	Host stage	Lodged plants (%)
NC> Huron	0.03	0	0.31	soft dough	less than 1
NC> Seneca	0.05	0.01	0.24	soft dough	less than 1
NC> Crawford	0.09	0	0.68	soft dough	5
NC> Lorain	0.09	0	0.20	soft dough	0
NE> Medina	0.14	0	0.36	blister	4
C> Knox	0.50	0	0.32	silk	100

Ohio - New county records. District> County= WESTERN CORN ROOTWORM (Diabrotica virgifera) collection data from corn: EC> Belmont= at Belmont, SE> Monroe= at Ozark, and Noble= at East Union, all collected August 25, 1980, all collected and determined by R.W. Wadleigh. Presently statewide. (R. Wadleigh).

MINNESOTA - Diabrotica spp. adult surveys completed August 23-29. Total of 151 fields of field corn in corn previous year surveyed in 47 counties. District> NORTHERN CORN ROOTWORM (Diabrotica longicornis) and Diabrotica virgifera adults per 0.4 ha (1979 in parentheses): WC> 32,510 (19,326), C> 34,920 (15,847), EC> 5,155 (18,714), SW> 68,920 (44,652), SC> 43,696 (22,329), and SE> 52,301 (37,645); statewide area> averaged 39,584 (26,435). All districts except FC showed increases from 1979; EC surveyed after peak emergence. SW> Rock County= heavy, 10 or more in only 2 fields. Ratio of northern to western species did not change much from 1979, 90:10 (88:12). Lodging trace to 1%, about same as in 1979. (D.D. Sreenivasam).

GREENBUG (Schizaphis graminum) - KANSAS - District> County= status on sorghum [bloom to milk] week ending September 5: EC> Franklin= up to 500 per plant (range 20-2,000+) and static on sorghum, parasitism trace, predators very abundant, and foliar damage serious on scattered plants. (K.O. Bell, Jr.).

CHINCH BUG (Blissus leucopterus leucopterus) - KANSAS - District> County= status on corn week ending September 5: SC> Stafford= up to 4-5 per plant behind leaf sheaths, and C> McPherson= mostly nymphs heavy in 2 of 3 fields (G.A. Salsbury), and Dickinson, Saline, Marion, EC> Osage, and Miami= nymphs and/or adults heavy in some sorghum fields. (K.O. Bell, Jr.).

NEBRASKA - Numerous reports of late season chinch bug damage to corn and grain sorghum week ending August 28. Damaged spots scattered throughout fields in 15-county area, mainly in southeast district, damage severe in some instances, bugs so numerous that 13 mm deep pile results when individual plants shaken suddenly. Small nymphs present, apparently beginning of third generation. Controls not effective. District> County= status August 25: E> Lancaster and SW> Lincoln= damage moderate to severe on bluegrass on county club fairways. (D.L. Keith et al.). Many reports of damage to maturing grain sorghum week ending September 4: E> northern Lancaster= 2nd instar to mature, averaged 500 per plant in 2 fields, damage spotty within fields, frequently seen on hillsides with southern and southwestern exposures. Where damage severe, sorghum falling over. (D.L. Keith, Asanzi).

ARKANSAS - District> County= chinch bug on sorghum heads: SW> Miller= adults and nymphs heavy. (G. Barnes).

SPIDER MITES - NEBRASKA - District> County= TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) and BANKS GRASS MITE (*Oligonychus pratensis*) on corn [soft dough to dent] August 15-21: NE area> populations increased slowly in fields surveyed, some fields still being treated (Jarvi), SW> Lincoln, Dundy, C> Dawson, SE> Fillmore, E> Butler, Lancaster, Saunders, York, and N> Wheeler= mite development slowed and egg production decreased in fields surveyed (Raun).

SMALL GRAINS

DISEASES

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - OKLAHOMA - New State record. District> County= collection data from *Triticum aestivum* (wheat): NC> Grant= collected on 'Tam 101' at Medford, June 3, 1980, by E. Williams, Jr., and determined by K.E. Conway. (K.E. Conway).

SOIL-BORNE WHEAT MOSAIC VIRUS - OKLAHOMA - First record for Panhandle area. New county record. District> County= collection data from *Triticum aestivum* (wheat): Panhandle> Beaver= collected from irrigated field on 'Vona' near Forgan, date unknown, by E. Williams, Jr., and viral particles determined by M.K. Brakkee. Farthest west this disease reported in State. (E. Williams, Jr.).

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - KANSAS - District> County= larvae per 0.3 row m of wheat [1 tiller] week ending September 5: SC> Kiowa= averaged 1-2 in field; some serious damage in spots. (G.A. Salisbury).

CHINCH BUG (*Blissus leucopterus leucopterus*) - KANSAS - District> County= nymphs and adults per 0.3 row m of wheat [host stage] week ending September 5: EC> Morris= 8 in 1 field [1-2 tiller]; none in another field [1 tiller]. (K.O. Bell, Jr.).

TURF, PASTURES, RANGELAND

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - OKLAHOMA - District> County= status week ending September 5: NC> Noble= mostly this species heavy in irrigated bermudagrass meadow; Noble, Garfield, and C> Payne= up to 6 per 0.09 sq m in pastures, unplowed fields, and waste areas in several areas; and NC> Major= up to 6 per 0.09 sq m in pastures. Larvae fed on crabgrass and bermudagrass. (D.C. Arnold).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - Continued most active disease on alfalfa. Survey on alfalfa week ending August 29 (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host height (cm)
C> Saline	70	trace	4.6
C> McPherson	trace	0	3.0
C> Rice	100	trace	7.3
C> Barton	trace	0	2.4-3.7
SC> Stafford	trace to 100	0-5	4.3-4.6
SC> Reno	15	trace	3.0
SC> Harvey	100	2	4.9
NE> Riley	5	0	1.8
NE> Marshall	35-90	trace to 5	2.4-4.3
NC> Republic	trace	0	2.4

WISCONSIN - District> County= summer black stem and leaf spot on alfalfa week ending August 29: C> Wood and SE> Waukesha= seen on third growth. (O.L. Lovett).

VERTICILLIUM WILT (Verticillium albo-atrum) - WISCONSIN - New State record. District> County= collection data from Medicago sativa (alfalfa): SC> Dane= collected from field near Pine Bluff, June 9, 1980, by T. O'Connell, determined by C. Grau and P. Ellwich. Detected in 11 other localities not more than 10 km apart in this county. Delimiting surveys to be continued in 1981. (R. Norgren).

INSECTS

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= counts (average) of mostly this species and BEET ARMYWORM (Spodoptera exigua) per 10 sweeps of alfalfa week ending September 5: SW> Jackson, Harmon, Tillman, and Kiowa= 0-35 (10) in 40 fields. (D.C. Arnold). ARKANSAS - Still above treatment levels statewide. Drought affected crop potential so that control noneconomic for many fields. (G. Barnes).

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - District> County= counts of this species, CORN EARWORM (Heliothis zea), GARDEN WEBWORM (Achyra rantalis), CABBAGE LOOPER (Trichoplusia ni), and VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) per 0.09 sq m of alfalfa week ending September 5: NC> Noble, Garfield, and Major= heavy, up to 25 in some areas. (D.C. Arnold).

POTATO LEAFHOPPER (Empoasca fabae) - MARYLAND - Area> status on alfalfa week ending August 29: C> still very heavy in untreated fields with completely yellowed fields reported, worst pest problem in NC district> Carroll and Baltimore Counties. (R. Hochmuth).

SOYBEANS

DISEASES

PHYTOPHTHORA ROOT ROT (Phytophthora megasperma f.sp. sojae) - KANSAS - District> County= prevalence on soybeans [flower] week ending August 29: SE> Cherokee= 20% and Labette= 40%. (T. Sim, IV).

SOYBEAN BROWN SPOT (Septoria glycines) - INDIANA - Survey on soybeans week ending August 30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Wabash	99	25	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Kosciusko	99	35	1 green seed fills pod cavity
NC> Elkhart	99	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Huntington	99	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Whitley	95	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Noble	99	20	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Steuben	99	30	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> De Kalb	99	15	1 green seed fills pod cavity
NE> Allen	99	5	1 green seed fills pod cavity
NE> Allen	90	20	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Adams	99	20	1 green seed fills pod cavity
EC> Jay	80	15	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
EC> Blackford	99	40	1 green seed fills pod cavity

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - KANSAS - District> County= prevalence/severity on soybeans [seed development] week ending August 29: NE> Marshall= 15%/light, NC> Washington= 5%/light, and Republic= 100%/light. (T. Sim, IV).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - OHIO - Severely defoliated soybean fields, larvae and adults heavy in southwestern area. All host stages at green seed fills pod cavity at 1 of 4 uppermost nodes, except in Preble County with seed beginning to develop. Survey (asterisk (*)) indicates lodging due to plant height and strong winds) September 2 (R.W. Wadleigh):

District> County	Larvae per sweep	Adults per sweep	Defoliation (%)
C> Fayette	0	0.01	10
SW> Clinton	0	0.03	less than 5
SW> Clinton*	lodging prevented	sampling	50
SW> Clinton*	lodging prevented	sampling	50
SW> Warren	lodging prevented	sampling	35
SW> Butler	0.83	7.7	85-90
SW> Butler	6.4	2	45
SW> Preble	3.4	0.3	25

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - MISSOURI - District> County= adults per soybean [43-76 cm tall] plant week ending August 30: NE> Knox= heavy, 3-7; defoliation 50%. (R.E. Munson). OHIO - Adults heavy in 3 southwestern fields. Defoliation not economic in 2 fields. All host stages at green seed fills pod cavity at 1 of 4 uppermost nodes, except in Preble County with seed beginning to develop. Survey (asterisk (*)) indicates lodging due to plant height and strong winds) September 2 (R.W. Wadleigh):

District> County	Counts per sweep	Defoliation (%)
C> Fayette	1.8	10
SW> Clinton	0.4	less than 5
SW> Clinton*	lodging prevented sampling	50
SW> Clinton*	lodging prevented sampling	50
SW> Warren	lodging prevented sampling	35
SW> Butler	1.2	85-90
SW> Buler	4.0	45
SW> Preble	0.04	25

CORN EARWORM (*Heliothis zea*) - MISSOURI - District> County= this species and FALL ARMYWORM (*Spodoptera frugiperda*) on soybeans week ending August 30: W> Vernon and St. Clair= larvae heavy, averaged 2-5 per 0.3 row m, ate all pods in few fields, and controls recommended in irrigated fields. (J.D. Hubbard). FLORIDA - District> County= status of mostly corn earworm week ending September 5: NW> Santa Rosa= most fields (70-75%) treated for pod-infesting larvae 2-3 weeks ago; few fields, total of 80.9 ha, treated in Jay area. Second treatment needed for SOYBEAN LOOPER (*Pseudoplusia includens*) and other larvae since then. (M. Donahoe). VIRGINIA - District> County= 3rd and 4th instar larval averages per 0.9 row m of soybeans August 28: SE> Southampton= 0.8 and Greenville= 18.4. (J. Taylor).

MARYLAND - District> County= corn earworm on soybeans week ending August 29: Eastern Shore> heavy populations of 1st and 2nd instar larvae appeared in lower area; Somerset, Worcester, and Wicomico= larvae 2 per 0.9 row m with heavier counts of 2 per 0.3 row m. Week ending September 5: Somerset, Worcester, and Wicomico= heavy, larvae averaged 2 per 0.3 row m on canopy, full-season beans and pod-filling double-crop beans (75+% of larvae 3+ cm long on full-season beans), larvae 1 per 0.3 row m on very young double-cropped beans [15-20 cm tall], and extensive controls applied; Central Eastern Shore area> counts minor but far fewer than on lower Eastern Shore. (R. Hochmuth).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - This species and SOYBEAN LOOPER (*Pseudoplusia includens*) still hatched. District> County= both species on soybeans September 3: NW> Santa Rosa= controls applied to 80% of fields, ineffectiveness last period led to respraying of some. (M. Donahoe).

GREEN CLOVERWORM (*Plathypena scabra*) - MARYLAND - District> County= larvae on soybeans week ending September 5: Eastern Shore> Dorchester, Wicomico, Somerset and Worcester= heavy, averaged 4-5 per 0.3 row m, heaviest at 15 in many cases, damage amplified due to extreme heat stress and slow regrowth; and Talbot, Caroline, and NC> Queen Annes= fewer than in above counties. (R. Hochmuth).

BEET ARMYWORM (*Spodoptera exigua*) - TEXAS - Area> status on soybeans week ending September 5: South Plains> decreased somewhat, still persisting. (J.A. Jackman).

PEANUTS

DISEASES

PEANUT LEAF RUST (*Puccinia arachidis*) - FLORIDA - District> County= status on peanuts week ending September 5: NW> Santa Rosa= small infected spots, 0.6 m in diameter, scattered throughout several fields near Jay. (M. Donahoe).

FALL ARMYWORM (*Spodoptera frugiperda*) - FLORIDA - District> County= status on peanuts week ending September 5: NW> Santa Rosa= population increased on 60.7 ha in Jay area, treatments required. (M. Donahoe).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - SOUTH CAROLINA - Area> status on peanuts August 26: Pee Dee counties> still problem, population levels decreased, field averages about 20-30% with range of 10-70% of plants infested (D. Manley); and Savannah Valley> some growers treated (J. Chapin).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - District> County= status on peanuts week ending September 5: NW> Santa Rosa= infested 28-ha field on farm 24 km south of Jay, controls needed. (M. Donahoe).

COTTON

INSECTS

BOLL WEEVIL (*Anthonomus grandis grandis*) - TEXAS - District> County= status on cotton week ending September 5: Blacklands> Williamson around Georgetown, and Edwards Plateau> Tom Green at San Angelo= numbers increased in late fields. (J.A. Jackman). OKLAHOMA - First damage of season. District> County= status on cotton week ending September 5: SW> Tillman= punctured squares averaged 1% in 1 of 41 fields in 4 counties. (D.C. Arnold). FLORIDA - District> County= status on cotton week ending September 3: NW> Santa Rosa= many fields, 25% of total hectares, needed treatment. More serious in 1980 than in 1979. (M. Donahoe).

BOLLWORMS (*Heliothis* spp.) - TEXAS - Area> status of BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) on cotton week ending September 5: Most areas> decreased; and South Plains, Rolling Plains, and far western areas> still heavy. (J.A. Jackman). OKLAHOMA - District> County= egg and larval counts (average) per 100 terminals of cotton week ending September 5: SW> Jackson, Harmon, Tillman, and Kiowa= 0-14 (4) and 0-48 (5) in 41 fields with only 1 *Heliothis virescens* adult in pheromone trap in Jackson County. (D.C. Arnold). FLORIDA - *Heliothis zea* populations heavy, eggs 100+ per 100 cotton plants September 3. (M. Donahoe).

BEET ARMYWORM (*Spodoptera exigua*) TEXAS - Continued to increase and cause problems on cotton in South Plains and Rolling Plains, problems on cotton in far west area. Continued problem on cotton in South Plains week ending September 5. (J.A. Jackman). Status on cotton August 8-15 (E.P. Boring, III et al.):

District> County	Status
Southern Low Plains> Knox and Stonewall	damaged
Southern Low Plains> Knox	square damage 80% in some fields
Northern High Plains> Hale	heavy
South Plains area	very heavy
South Plains area	up to 200,000 eggs per 0.4 ha
	in treated plot
Trans-Pecos> El Paso	light
Trans-Pecos> Hudspeth at Dell City	larvae 90,000-250,000 per 0.4 ha
Trans-Pecos> Pecos and Reeves	light

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - FLORIDA - New county record for Escambia. District> County= collection data from cotton: NW> Escambia and Santa Rosa= larvae on main stem terminals on 60.7 ha scattered from northeastern Escambia County into Santa Rosa County, collected August 19, 1980. Collected and determined by M. Donahoe, and confirmed by D.H. Habeck. (M. Donahoe).

WESTERN FLOWER THRIPS (*Frankliniella occidentalis*) - SOUTH CAROLINA - New State record. District> County= collection data from *Gossypium hirsutum* (cotton): S> Barnwell= collected (city not reported) June 23, 1980, by J.W. Chapin and determined by S. Nakahara. (L. Knutson).

POTATOES, TOMATOES, PEPPERS

DISEASES

POTATO/TOMATO LATE BLIGHT (*Phytophthora infestans*) - WISCONSIN - District> County= status on potatoes week ending August 29: NE> Langlade= becoming severe in Antigo area, symptoms on up to 50% of leaves in some fields. (O.L. Lovett).

INSECTS

TOMATO PINWORM (*Keiferia lycopersicella*) - OKLAHOMA - New county record. District> County= collection data from tomatoes: NC> Garfield= heavy on leaves and fruit in garden at Enid, September 3, 1980, collected by J.T. Pitts and determined by D.C. Arnold. (D.C. Arnold).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - OHIO - District> County= adults in pheromone traps August 12-18: NE> Wayne= 19 in 2 traps. (R. Hall).

LESSER PEACHTREE BORER (*Synanthedon pictipes*) - SOUTH CAROLINA - District> County= counts (average) per pheromone trap in peach orchards August 2-22: WC> Edgefield, Saluda, and C> Lexington= 0-301 (68). (B. Hallman, C.S. Gorsuch).

PEACHTREE BORER (*Synanthedon exitiosa*) - SOUTH CAROLINA - District> County= counts (average) per pheromone trap in peach orchards August 2-22: WC> Edgefield, Saluda, and C> Lexington= 0-77 (10). (B. Hallman, C.S. Gorsuch).

REDBANDED LEAFROLLER (*Argyrotaenia velutinana*) - OHIO - District> County= adults in pheromone traps August 12-18: NE> Wayne= 9 in 2 traps, first capture since July 19. (F. Hall).

A SPIDER MITE (*Tetranychopsis horridus*) - OREGON - New State record. County= collection data from *Corylus avellana* (European filbert): Marion= 50 females collected on certain unsprayed trees in Salem area by R. Brown and J.L. Mellott, May 5, 1978, and determined by J.L. Mellott. Adult females appeared in late June in area. Species host specific to European filbert and not found in any other part of Pacific Northwest. Not considered pest of European filberts in State, but damage serious to filberts in Europe. (J.L. Mellott).

CITRUS

INSECTS

COMSTOCK MEALYBUG (*Pseudococcus comstocki*) - CALIFORNIA - District> County= adults in pheromone traps August 14-15: San Joaquin Valley> Tulare= 6. (C.S. Papp).

SMALL FRUITS

INSECTS

WESTERN GRAPELEAF SKELETONIZER (*Harrisina brillians*) - CALIFORNIA - District> County= status on grapes week ending September 5: Southern California> River-side= heavy at Homeland, infestation limited to yard grapes. Infested 90% of yard grapes within 3-sq-km area August 30 to September 1. Area has about 2,000 yards with 1,600+ of those cultivating grapes, adults in all developmental stages and larvae in great variety of different instars, average of 50 per leaf reported, treatment and eradication will start soon. (C.S. Papp).

GRAPE CANE GALLMAKER (*Ampelogypter sesostris*) - TENNESSEE - New county record. District> County= collection data from 'Concord' grape: Cumberland Plateau> Warren= at residence at McMinnville, June 5, 1980, collected and determined by J. Eisler. (M.E. Cooper).

POTATO LEAFHOPPER (*Empoasca fabae*) - OHIO - District> County= status on grapes August 20: NE> Ashtabula= populations heavy, treatments not effective. (R. Williams).

ORNAMENTALS

INSECTS

A GELECHIID MOTH (*Stenolechia bathrodyas*) - CALIFORNIA - New county record. District> County= collection data from *Juniperus* spp. (junipers): Southern California> Orange= late instar larvae collected at Huntington Beach, August 12, 1980, by J. Sinnen and determined by T. Eichlin. (C.S. Papp).

A PIT SCALE (*Cerococcus kalmiae*) - FLORIDA - New State record. District> County= collection data from *Myrica cerifera* (wax myrtle): S> St. Lucie= adults on stems of plant along road near Port Saint Lucie, collected by E. Campbell and determined by A.B. Hamon. Plants established for some time. (E. Campbell).

TULIPTREE SCALE (*Toumeyella liriodendri*) - FLORIDA - New county record. District> County= collection data from *Magnolia* sp. (magnolia) tree: S> Indian River= adults on stems and leaves of established tree near nursery environs at Sebastian, August 28, 1980, collected by R. Kendrick and determined by A.B. Hamon. (R. Kendrick).

CACTUS SCALE (*Diaspis echinocacti*) - FLORIDA - New county record. District> County= collection data from *Schlumbergera truncata* (a Christmas cactus) plants: C> Citrus= adults heavily infested leaves of 4 plants in nursery at Dunnellon, August 11, 1980, collected by R. Phillips and determined by A.B. Hamon. Plants in nursery 1+ years. (R. Phillips).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - WISCONSIN - New county record. District> County= collection data: NC> Price= from *Pinus nigra* (Austrian pine) near Fifield, July 19, 1980, by T. Nicholls and determined by A. Foudin; SW> Iowa= from *Pinus sylvestris* (Scotch pine) near Arena, August 19, and NW> Douglas= from *Pinus resinosa* (red pine) near Wascott, August 25, both collected by D. Hall, determined by J. Zarnstorff, and confirmed by R. Norgren. (O.L. Lovett).

INSECTS

BLACK TWIG BORER (*Xylosandrus compactus*) - SOUTH CAROLINA - New State and county records. District> County= collection data: S> Charleston= 5 larvae, 3 pupae, and 30 adults collected from *Quercus laurifolia* (laurel oak) at residence at North Charleston, July 22, 1976, collected and determined by R.F. Bollinger, and confirmed by D.M. Anderson. (D.M. Anderson). Colleton= larvae, pupae, and adults in terminal branches as far as 60 cm from tips on *Magnolia grandiflora* (southern magnolia) on residential grounds near Green Pond, 23 km south of Walterboro, October 9, 1979, by D.L. Ham and W.P. Yates, and determined by M.A. Deyrup. (D.L. Ham). Berkeley= adults collected from southern magnolia on grounds of industrial plant near Goose Creek, January 10, 1980, by L.S. Jones and determined by J.C. Morse. E> Georgetown= adults collected from southern magnolia from residential area at Georgetown, January 30, 1980, by H.B. Hardee and determined by C.S. Gorsuch. (H.B. Hardee et al.).

Other black twig borer collections in South Carolina in 1979: Charleston= from southern magnolia at residence at Charleston, July 10, by J.D. Walters and determined by B. Weber; on almost all *Persea borbonia* (redbay) at residence on Kiawah Island at Mount Pleasant, July 30; from *Carya cordiformis* (bitternut hickory) at residence at James Island, October 12; from *Cornus florida* (flowering dogwood), from *Fagus grandifolia* (American beech), and from *Liquidambar styraciflua* (sweetgum) from park at plantation at Mount Pleasant, October 15. Collected and determined by J.D. Walters for last 3 sites. (J.D. Walters).

SMALLER EUROPEAN ELM BARK BEETLE (*Scolytus multistriatus*) - WISCONSIN - New county records. District> County= collection data from multilure traps: WC> Dunn= near Elk Mound, St. Croix= near Woodville, and NW> Barron= near Chetek. All collected August 12, 1980, by R. Larson and determined by E. Arnold. (O.L. Lovett).

A CECIDOMYIID MIDGE (*Dasineura gleditchiae*) - WASHINGTON - New county record. District> County= collection data from *Gleditsia triacanthos* (honeylocust): EC> Grant= collected on 'Sunburst', 1 tree each, at Quincy and at Warden, August 11, 1980, collected and determined by T. Smith. (T. Smith). CALIFORNIA - New county records. District> County= collection data from *Gleditsia triacanthos* (honeylocust): Sacramento Valley> Sacramento= collected on 'Sunburst' on residential property at Sacramento, June 15, 1980, by T.D. Eichlin; Solano= collected in nursery at Suisun, July 7, by J. Okpysz (these plants were not brought into or taken out of area before collection of pest); Central Coast> Napa= moderate to heavy on growing tips of honeylocust at Napa week ending July 11, collected by Dannenberg (initials not given); and Santa Cruz= infestation scattered among 50 'Sunburst' honeylocusts, 10 larvae and pupae per leaf in some cases at Soquel, August 15, collected by Morton (initials not given). All determined by K. Corwin. (C.S. Papp).

A DIASPIDID SCALE (*Neopinnaspis harperi*) - FLORIDA - New county record. District> County= collection data from Quercus nigra (water oak): S> Indian River= adults heavily infested leaves and stems of 9.1 m tall tree at residence at Vero Beach, May 20, 1980, collected by R. Kendrick and E. Campbell, determined by E. Mercer, and confirmed by A.B. Hamon. (R. Kendrick, E. Campbell).

WALKINGSTICK (*Diapheromera femorata*) - OKLAHOMA - New county record. District> County= collection data: C> Payne= 1 adult male taken on side of building at Stillwater, September 3, 1980, collected and determined by D.C. Arnold. (D.C. Arnold).

MAN AND ANIMALS

INSECTS

A MOSQUITO (*Culex tarsalis*) - OHIO - New county record. District> County= collection data: NC> Sandusky= captured in light trap at Lindsey, August 14, 1980, by J. Jaap-Moyer, and determined by S. Gordon. (S. Gordon).

A DOLICHOPSYLLID FLEA (*Opisocrostitis oregonensis*) - IDAHO - New host record for State. District> County= collection data from Mustela frenata (weasel): SW> Ada= city not reported, June 6, 1980, determined by R.B. Eads. (H.W. Homan). Species normally on ground squirrels. (G. Ralston, C.R. Baird).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

MINUTE PIRATE BUG (*Orius tristicolor*) - OHIO - Adults collected in sweep samples from forage crops August 18-19 (R.W. Wadleigh):

District> County	Counts per sweep	Host	Host stage
NC> Huron	1.9	alfalfa	3.7 cm tall
NC> Huron	1.3	red clover	10% bloom
NC> Ashland	3.4	alfalfa	4.6 cm tall
NC> Lorain	0.6	alfalfa	4.3 cm tall
NC> Lorain	0.9	alfalfa	4.3 cm tall

A STREPSIPTERA (*Halictophagus acutus*) - KENTUCKY - New State record. District> County= collection data from Draeculacephala spp. (leafhoppers): Bluegrass> Fayette= 5 adult males dissected from puparia on leafhoppers at Lexington during September and October 1975, collected by V. Johnson, and determined by V. Johnson and W.P. Morrison. Many additional male puparia, females, and larvae collected. Percentage of parasitism varied locally, but often majority of leafhoppers parasitized. (P.E. Sloderbeck).

A STREPSIPTERA (*Elenchus koebeli*) - KENTUCKY - New State and county records. District> County= collection data from probably Delphacodes spp. (delphacid planthoppers): C> Larue= adult collected in blacklight trap at Hodgenville, July 16, 1971, by P.H. Freytag, and E> Pike= adult collected from blacklight trap, city not given, August 22, 1975, by V. Johnson; both determined by V. Johnson and W.P. Morrison. (P.E. Sloderbeck).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - OKLAHOMA - New county record for *Melanoplus splendidus*. District> County= collection data from *Juniperus virginiana* (eastern redcedar): WC> Blaine= 3 females collected 8 km east of Watonga, August 7, 1980. Collected and determined by D.C. Arnold. Collection about 430 km southeast of all previous collections which were in Black Mesa area of Panhandle> Cimarron County. (D.C. Arnold). NEBRASKA - District> County= average (range) of mainly *Melanoplus differentialis* per 0.8 sq m week ending September 4: E> northern Lancaster= 15 (2-35) in roadside ditches at 3 sites, locally heavy in roadside ditches and adjacent corn fields, averaged about 5 per plant in corn fields, stripped outer 5 rows of leaves. (D.L. Keith, Asanzi).

GYPSY MOTH (*Lymantria dispar*) - TENNESSEE - First find. District> County= collection data from trap: East Tennessee> Greene= at rest stop on National Interstate Highway 81 near Jearoldstown exit, July 21, 1980, by F. Wetzel, and determined by J. Litton. (M.E. Cooper). INDIANA - First finds. All collected in pheromone traps in 1980 by J. Clark, determined by J. Clark, and confirmed by R. Taylor. All single finds except in Vigo County where 4 adults collected in 2 traps. (J. Clark).

<u>District> County</u>	<u>Nearest city</u>	<u>Collection date</u>
WC> Vigo	New Goshen	Aug 4
C> Hendricks	Clayton	Aug 4
EC> Wayne	Richmond	Aug 1
SE> Franklin	Metamora	Aug 25

PINK BOLLWORM (*Pectinophora gossypiella*) - TEXAS - District> County= counts per trap per day August 15: Trans-Pecos> Hudspeth= 1-11 at Fort Hancock. (B.A. Lee).

HAWAII PEST REPORT

New Western Hemisphere Records - An EPHYDRID FLY (Hydrellia tritici Coquillett) - Island= collection data: Hawaii= many specimens (host not given) at Kilauea (1,200 m elevation), September 9, 1978, by S. Montgomery, determined by D.E. Hardy, and confirmed by W. Mathis. Known only from Australia and New Zealand. Potential pest mostly of grasses. Leafmining larvae in Australia reared from Triticum aestivum (wheat), Poa annua (annual bluegrass), Poa trivialis (rough-stalk bluegrass), Lolium sp. (a ryegrass), and Dichondra repens (a dichondra). (L.M. Nakahara).

An ICHNEUMONID WASP (Brachycyrtus nawaii (Ashmead)) - Island= collection data: Oahu= 1 specimen emerged from pupa of Chrysopa comanche (a green lacewing) collected from Aleurodicus dispersus (a whitefly)-infested Hibiscus tiliaceus (sea hibiscus), at Kuliouou, August 28, 1979, by L.M. Nakahara. Subsequently, 2 specimens emerged from pupae of Chrysopa sp. probably comanche collected from Aleurodicus dispersus-infested Terminalia catappa (tropical-almond) near downtown Honolulu on May 28, 1980, by D.K. Kosaka. Two specimens collected earlier from light traps at air force base by J.W. Beardsley in October 1976 and January 1978. All determined by P.M. Marsh. This Palearctic species, with distribution in Japan and the Philippines, has been reared from cocoon of a Chrysopa sp. (D.K. Kosaka et al.).

A NERIID FLY (Telostylinus lineolatus (Wiedemann)) - Island= collection data: Oahu= 1 female in botanical gardens at Honolulu, November 1978, by D.E. Hardy. New Island record. In 1980 for Kauai= female at Lawai in May by D.Y. Daida; some at ranch at Kipu, June 27, by R.L. Rice; and female at Kalaheo, August 19, by D.T. Sugawa. All determined by D.E. Hardy. Known from Australia (Queensland), Indonesia, New Guinea, Sri Lanka, and Thailand. Associated with decaying vegetation, often on rotting fruits. (D.E. Hardy, D.T. Sugawa).

New State Record - An EPHYDRID FLY (Brachydeutera argentata) - Island= collection data: Kahoolawe= 4 specimens collected (city not given) in May 1980 by S. Montgomery, determined by D.E. Hardy, and confirmed by W.N. Mathis. Larvae of this aquatic species primarily scavengers on decaying plant material. (D.E. Hardy).

New host record for State - A LYCAENID BUTTERFLY (Brephidium exilis) - Island= collection data from Atriplex semibaccata (Australian saltbush): Oahu= at air force base, July 17, 1979, by D.S. Henderson, T. Watanabe, and L.M. Nakahara, and determined by S.Y. Higa. (L.M. Nakahara).

Snail Pests - GIANT AFRICAN SNAIL (Achatina fulica) - Island= status: Hawaii= total of 5 empty shells recovered in August 1980 from Puako, relatively new infestation site. (R.S. Kami).

DETECTION

NEW WESTERN HEMISPHERE RECORDS

INSECTS

AN EPHYDRID FLY (Hydrellia tritici Coquillett) - HAWAII - Hawaii Island. (p. 646).

AN ICHNEUMONID WASP (Brachycyrtus nawaii (Ashmead)) - HAWAII - Oahu Island. (p. 646).

A NERIID FLY (Telostylinus lineolatus (Wiedemann)) - HAWAII - Oahu Island. (p. 646).

NEW STATE RECORDS

DISEASES

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - OKLAHOMA - Grant County. (p. 636).

VERTICILLIUM WILT (Verticillium albo-atrum) - WISCONSIN - Dane County. (p. 637)

INSECTS

BLACK TWIG BORER (Xylosandrus compactus) - SOUTH CAROLINA - Charleston County. (p. 643).

AN EPHYDRID FLY (Brachydeutera argentata) - HAWAII - Kahoolawe Island. (p. 646)

AN OEDEMERID BEETLE (Xanthochroa trinotata) - FLORIDA - District> County= collection data from blacklight trap: NE> Columbia= first known males in trap at eave of house, 183 m to nearest field, 24 km from woods and river, at Lake City, April 18, 1980, collected by A.E. Graham, determined by R.E. Woodruff, and confirmed by R.H. Arnett. Previously, only 4 specimens known for this species. (R.E. Woodruff).

A PIT SCALE (Cerococcus kalmiae) - FLORIDA - St. Lucie County. (p. 642).

A SPIDER MITE (Tetranychopsis horridus) - OREGON - Marion County. (p. 641).

A STREPSIPTERA (Elenchus koebeli) - KENTUCKY - Larue County. (p. 644).

A STREPSIPTERA (Halictophagus acutus) - KENTUCKY - Fayette County. (p. 644).

WESTERN FLOWER THRIPS (Frankliniella occidentalis) - SOUTH CAROLINA - Barnwell County. (p. 641).

NEW COUNTY RECORDS

DISEASES

A DAGGER NEMATODE (Xiphinema insigne) - CALIFORNIA - District> County= collection data: San Joaquin Valley> Kern= in soil sample (citrus, avocado, peach, pecan, and rose) at Bakersfield, August 11, 1980, by M. Kile and D. Warkentin, and determined by R. Fortuner. (C.S. Papp).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - WISCONSIN - Price, Iowa, and Douglas. (p. 643).

SOIL-BORNE WHEAT MOSAIC VIRUS - OKLAHOMA - Beaver. (p. 636).

INSECTS

BLACK TWIG BORER (Xylosandrus compactus) - SOUTH CAROLINA - Colleton, Berkeley, and Georgetown. (p. 643).

CACTUS SCALE (Diaspis echinocacti) - FLORIDA - Citrus. (p. 642).

A CECIDOMYIID MIDGE (Dasineura gleditchiae) - CALIFORNIA - Sacramento, Solano, Napa, and Santa Cruz - WASHINGTON - Grant. (p. 643).

A DIASPIDID SCALE (Neopinnaspis harperi) - FLORIDA - Indian River. (p. 644).

EUROPEAN CORN BORER (Ostrinia nubilalis) - FLORIDA - Escambia. (p. 641).

A GELECHIID MOTH (Stenolechia bathrodyas) - CALIFORNIA - Orange. (p. 642).

GRAPE CANE GALLMAKER (Ampelogypter sesostris) - TENNESSEE - Warren. (p. 642).

A GRASSHOPPER (Melanoplus splendidus) - OKLAHOMA - Blaine. (p. 645).

A MOSQUITO (Culex tarsalis) - OHIO - Sandusky. (p. 644).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - WISCONSIN - Dunn, St. Croix, and Barron. (p. 643).

A STREPSIPTERA (Elenchus koebeli) - KENTUCKY - Pike. (p. 644).

TOMATO PINWORM (Keiferia lycopersicella) - OKLAHOMA - Garfield. (p. 641).

TULIPTREE SCALE (Toumeyella liriodendri) - FLORIDA - Indian River. (p. 642).

WALKINGSTICK (Diapheromera femorata) - OKLAHOMA - Payne. (p. 644).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - OHIO - Belmont, Monroe, and Noble. (p. 635).

OTHER NEW RECORDS

A DOLICHOPSYLLID FLEA (Opisocrostis oregonensis) - IDAHO - New host record for State. (p. 644).

GYPSY MOTH (Lymantria dispar) - TENNESSEE and INDIANA - First finds. (p. 645).

A LYCAENID BUTTERFLY (Brephidium exilis) - HAWAII - New host record for State. (646).

TRAP COLLECTIONS																			
°C	Precip.	Trap	ACw	Aw	BAw	BCw	CEw	Clo	CoM	ECB	FAw	GCw	RLr	SmC	TbH	TmH	ToB	VCw	YAw
ARIZONA																			
		Mesa	9/1-7	B	3	143	15	3	15							1		1	3
FLORIDA																			
		Gainesville	9/4-10	B	5	2	6	1			35	32			1				
INDIANA (Counties)																			
		LaGrange	9/2-8	B						238	244	4						5	
		Tippecanoe	9/5-11	5P				0						0					
KANSAS																			
		Humboldt	9/7-9	B	56		960			64	132								
		Rossville	9/12	B	80		156			24	146								
KENTUCKY																			
		Lexington	9/3-10	B	9		3	96		22	31				5	1			37
VIRGINIA																			
		Painter	8/31-9/6	B	447		63	598	217	175	718			5	59	20		18	152
		Warsaw	9/2-8	B	6		249			392									
WISCONSIN																			
		Cedar Grove	8/26-9/8	B	294		79	121		25								0	
		Evansville	9/2-8	B	27		-	40		22								-	
ABBREVIATIONS:																			
B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper			RLr	Redbanded Leafroller					VCw	Variegated Cutworm				
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth			SmC	Saltmarsh Caterpillar					YAw	Yellowstriped Armyworm				
U	Ultraviolet	BAw	Beet Armyworm	ECB	European Corn Borer			TbH	Tobacco Hornworm										
P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm			TmH	Tomato Hornworm										
		CEw	Corn Earworm	GCw	Granulate Cutworm			TXB	Tobacco Budworm										

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Saltmarsh Caterpillar	YAw	Yellowstriped Armyworm
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P	Pheromone	BCw	Black Cutworm	FAw	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	TXB	Tobacco Budworm		

METRIC CONVERSION

1 cm	= 0.393701 in
1 m	= 3.28084 ft = 1.09361 yd
1 km	= 0.621371 mi
1 sq cm	= 0.155000 sq in
1 sq m	= 10.7639 sq ft = 1.19599 sq yd
1 ha	= 2.47104 acres
1 sq km	= 0.386101 sq mi
1 kg	= 2.20462 lb
1 t (metric ton)	= 1.10231 short ton
1 kg/ha	= 0.892183 lb/acre
1 t/ha	= 0.446091 ton/acre

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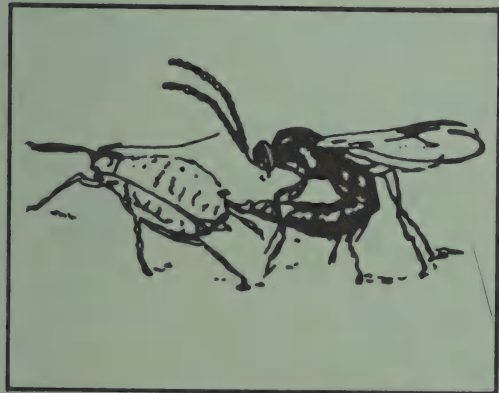
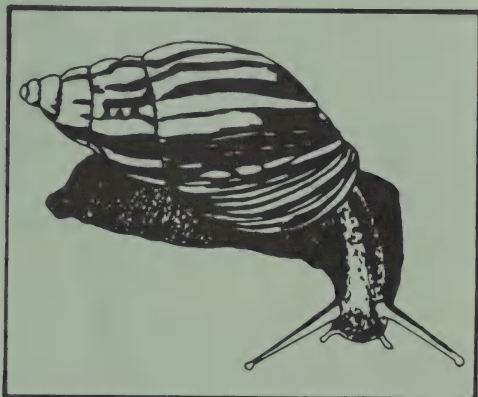
Plant Protection
and Quarantine

Cooperative Plant Pest Report

September 26, 1980

Vol. 5

No. 35



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

VELVETBEAN CATERPILLAR heavy on soybeans in Florida. (p. 657).

BACTERIAL PUSTULE prevalence 40% on soybeans in northeastern area of Indiana. (p. 656).

Prevalence of SOYBEAN MOSAIC VIRUS 15% on soybeans in east-central area of Indiana. (p. 656-657).

Detection

New State records include WHITE LINE MOSAIC VIRUS in Wisconsin (p. 653), SOYBEAN CYST NEMATODE (p. 657) and a WEEVIL (p. 659) in Maryland, BLACK VINE WEEVIL in Kansas (p. 660), and a PHALACRID BEETLE and a SCATOPSID FLY in Hawaii (p. 662).

For new county records see page 663.

Special Report

Pink Bollworm Quarantines. Map. Centerfold.

NOTE: The final issue of pest activity will be published in October.
CPPR will no longer be published after that time.

Reports in this issue are for the week ending September 19 unless otherwise indicated.

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Pink Bollworm Quarantines. Map. Centerfold.	

CORN, SORGHUM, SUGARCANE

DISEASES

WHITE LINE MOSAIC VIRUS - WISCONSIN - New State and county records. District> County= collection data from Zea mays (corn): EC> Sheboygan= on sweet corn near Waldo, July 27, 1979; Manitowoc= on sweet corn near Kellnerville, August 15, 1979; SE> Racine= on field corn near Waterford, August 20, 1979; Washington= on sweet corn near Fillmore, July 25, 1980; and Ozaukee= on sweet corn near Fredonia, July 25, 1980. All collected by S. Saad and determined by G.A. Gard. (R. Norgren).

INSECTS

CORN EARWORM (Heliothis zea) - KANSAS - Smallest larvae on sorghum [bloom] and largest on sorghum [dough]. Survey (asterisk (*)) indicates movement to sorghum from pigweed, pigweed defoliated or being defoliated) week ending September 12 (K.O. Bell, Jr.):

District> County	Average per head	Number of fields
C> Ellis	0.7-1.3	2
C> Rush	0.4-1.1	4
C> Barton	1.2-1.8	1
C> Rice	1.2-4.8	2
WC> Ness	1.1	1
WC> Greeley	0-0.1	2
WC> Wallace	0	1
SW> Hodgeman	1.0	1
SW> Ford	0.2-1.3	6
SW> Clark	0.2	1
SW> Meade	0.3-0.9	4
SW> Gray	0.5-2.7	3
SW> Finney	0-0.8	3
SW> Seward*	0.2-0.9	3
SW> Stevens*	0.2-0.4	4
SW> Morton*	0.2-0.6	3
SW> Seward	0.5-1.1	4
SW> Stevens	0.1-1.1	3
SW> Morton	0.3-1.2	3
SW> Hamilton	0.1	2
NC> Phillips	0	1
NC> Jewell	0	1
SC> Pratt	1.4	1
SC> Stafford	2.6	1
SC> Pawnee	0.2-0.3	2
SC> Edwards	1.0-1.4	2
SC> Kiowa	0.8-1.3	2
SC> Reno	1.3-2.1	2
SC> Kingman	1.0	1
SC> Sedgwick	1.8-3.5	2
SC> Sumner	0.6	1
SE> Butler	0.5-4.4	3
SE> Cowley	0.3-2.3	2
NE> Jackson	0.1-0.2	2

WESTERN CORN ROOTWORM (*Diabrotica virgifera*) - INDIANA - New county records. All collected from grain corn in 1980 by R.W. Meyer, determined by R.W. Meyer, and confirmed by A.W. Provonsha. (R.W. Meyer).

<u>District> County</u>	<u>Nearest city</u>	<u>Collection date</u>
SE> Ohio	Milton	Aug 4
SE> Switzerland	Allensville	Aug 4
SE> Clark	New Washington	Aug 5
SC> Floyd	Floyds Knobs	Aug 5
SC> Harrison	Crandall	Aug 5
SC> Crawford	Marengo	Aug 5

CHINCH BUG (*Blissus leucopterus leucopterus*) - NEBRASKA - Still heavy in alfalfa week of September 4: C> Maricopa= adults 128, SE> Graham= nymphs and adults 30-400, Cochise= nymphs 60 and adults 60, and SW> Yuma= nymphs and adults 80-1,010. (S. Kozloski et al.).

FORAGE LEGUMES

INSECTS

LYGUS BUGS (*Lygus* spp.) - ARIZONA - District> County= counts per 100 sweeps of alfalfa week of September 4: C> Maricopa= adults 128, SE> Graham= nymphs and adults 30-400, Cochise= nymphs 60 and adults 60, and SW> Yuma= nymphs and adults 80-1,010. (S. Kozloski et al.).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. sojae) - INDIANA - Survey on soybeans week ending August 30 (R.A. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
NC> Wabash	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Kosciusko	not seen	1 green seed fills pod cavity
NC> Elkhart	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Huntington	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Whitley	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Noble	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Steuben	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> De Kalb	trace	1 green seed fills pod cavity
NE> Allen	trace	1 green seed fills pod cavity
NE> Allen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Adams	not seen	1 green seed fills pod cavity
EC> Jay	10	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
EC> Blackford	not seen	1 green seed fills pod cavity

PHYLLOSTICTA LEAF SPOT (*Phyllosticta sojaecola*) - INDIANA - District> County= prevalence/severity on soybeans [seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf] week ending August 30: NE> Noble and Steuben= trace/trace in 2 of 13 fields. (R.A. Schall).

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - INDIANA - Survey on soybean leaves week ending August 30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	10	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Kosciusko	20	trace	1 green seed fills pod cavity
NC> Elkhart	90	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Huntington	95	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Whitley	99	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Noble	99	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Steuben	99	2	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> De Kalb	99	1	1 green seed fills pod cavity
NE> Allen	99	1	1 green seed fills pod cavity
NE> Allen	99	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Adams	40	trace	1 green seed fills pod cavity
EC> Jay	80	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
EC> Blackford	80	trace	1 green seed fills pod cavity

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - INDIANA - Survey on soybean leaves week ending August 30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	5	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Kosciusko	2	1	1 green seed fills pod cavity
NC> Elkhart	trace	1	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Huntington	6	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Whitley	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Noble	5	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Steuben	10	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> De Kalb	not seen	not seen	1 green seed fills pod cavity
NE> Allen	2	trace	1 green seed fills pod cavity
NE> Allen	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf

District> County	Prevalence (%)	Severity (%)	Host stage
NE> Adams	5	2	1 green seed fills pod cavity
EC> Jay	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
EC> Blackford	5	trace	1 green seed fills pod cavity

BACTERIAL PUSTULE (*Xanthomonas phaseoli* f.sp. *sojensis*) - INDIANA - Survey on soybean leaves week ending August 30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
MC> Wabash	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Kosciusko	1	trace	1 green seed fills pod cavity
NC> Elkhart	trace	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Huntington	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Whitley	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Noble	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Steuben	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> De Kalb	not seen	not seen	1 green seed fills pod cavity
NE> Allen	40	3	1 green seed fills pod cavity
NE> Allen	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Adams	not seen	not seen	1 green seed fills pod cavity
EC> Jay	not seen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
EC> Blackford	not seen	not seen	1 green seed fills pod cavity

SOYBEAN MOSAIC VIRUS - INDIANA - Survey on soybeans week ending August 30 (R.A. Schall):

District> County	Prevalence (%)	Host stage
NC> Wabash	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NC> Kosciusko	not seen	1 green seed fills pod cavity
NC> Elkhart	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Huntington	trace	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Whitley	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Noble	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Steuben	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> De Kalb	not seen	1 green seed fills pod cavity
NE> Allen	not seen	1 green seed fills pod cavity

District> County	Prevalence (%)	Host stage
NE> Allen	not seen	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
NE> Adams	not seen	1 green seed fills pod cavity
EC> Jay	15	seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf
EC> Blackford	not seen	1 green seed fills pod cavity

BEAN YELLOW MOSAIC VIRUS - INDIANA - District> County= prevalence on soybeans [host stage] week ending August 30: NE> Allen [1 green seed fills pod cavity] and EC> Jay [seed 3 mm in pod at 1 of 4 uppermost nodes on main stem with fully developed leaf]= trace in 2 of 13 fields. (R.A. Schall).

SOYBEAN CYST NEMATODE (*Heterodera glycines*) - KENTUCKY - New county record. District> County= collection data from *Glycine max* (soybean): Purchase> Lyon= in field at Eddyville, May 1980, collected and determined by L. Murdock and J. Herbek. (P.E. Sloderbeck). MARYLAND - New State and county records. District> County= collection data from *Glycine max* (soybean): Eastern Shore> Worcester= in field at Stockton, December 3, 1979, collector unknown; and Dorchester= in field at Eldorado, June 3, 1980, collected by R. Wade. Both determined by L.R. Krusberg. (R. Hochmuth).

INSECTS

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - MARYLAND - District> County= status on soybeans week ending September 12: Eastern Shore area> populations steadily increased; central Eastern Shore> Talbot, Dorchester, and NC> Queen Annes= damage heaviest, mostly 4th instar larvae and pupae, defoliation up to 30% in some fields and treatment recommended; and Lower Eastern Shore area> no economic levels to date, populations still well below central Eastern Shore area. (R. Hochmuth).

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - ALABAMA - Area> adults (average) per 4.6 row m of soybeans [host stage] in number of fields (f) week of September 3: Gulf Coast> 6 (6) [pod] in 1f, Coastal Plains> 1-10 (4.3) [pod] in 3f (T. Lemons), Wiregrass> 2 (2) [pod] in 2f (W.N. Stephenson), Central Alabama> 12-18 (15.7) [late pod] in 3f (C. Knox, N. Wilson), Black Belt> 1-3 (2) [pod] in 3f (T.I. Pigott, G. Walker), Tennessee River> 8-25 (16) [pod] in 5f (J.E. Gregory), and Sand Mountain> 2-4 (2.8) [pod] in 5f (W.A. Smith). NEBRASKA - District> County= counts on soybeans September 12: E area> populations still heavy in fields and SE> Otoe= up to 20 per sweep in field. (Witkowski, D.L. Keith).

WHITEFRINGED BEETLES (*Graphognathus* spp.) - ALABAMA - Area> adults (average) per 4.6 row m of soybeans [host stage] in number of fields (f) week of September 3: Coastal Plains> 1 (1) [pod] in 1f (T. Lemons), Wiregrass> 2-3 (2.6) [early to late pod] in 5f (W.N. Stephenson), Central Alabama> 4 (4) [pod] in 1f (C. Knox, N. Wilson), Black Belt> 1 (1) [pod] in 1f (T.I. Pigott, G. Walker), and Sand Mountain> 3 (3) [pod] in 1f (W.A. Smith).

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - District> County= status on soybeans: NW> Jackson= potentially devastating levels in most areas September 3 and heavy over entire county September 12 (J.E. Arnold); and Santa Rosa, and Escambia= larvae heavier than threshold levels September 17, larvae completely defoliated untreated fields and then fed on pods. (M.C. Nonahoe).

GREEN CLOVERWORM (*Plathypena scabra*) - ALABAMA - Area> larvae (average) per 4.6 row m of soybeans [host stage] in number of fields (f) week of September 3: Coastal Plains> 3rd instars 17 (17) [pod] in 1f (T. Lemons), Wiregrass> 2nd instars 3-10 (5.5) [early to late pod] in 4f (W.N. Stephenson), Central Alabama> 4th instars 12 (12) [pod] in 1f (C. Knox, N. Wilson), Black Belt> 1st to 5th instars 11-15 (13) [pod] in 3f (T.I. Pigott, G. Walker), Tennessee River> 2nd to 3rd instars 4-8 (6.3) [pod] in 4f (J.E. Gregory), and Sand Mountain> 2nd to 4th instars 1-18 (5.7) [pod] in 6f (W.A. Smith). MARYLAND - District> County= larvae on soybeans week ending September 12: Eastern Shore area> still very heavy in some areas, and Eastern Shore> Wicomico= up to 15 per 0.3 row m still detected. Recent rains and cool weather will help host regrowth. (R. Hochmuth).

SOYBEAN LOOPER (*Pseudoplusia includens*) - ALABAMA - Area> larvae (average) per 4.6 row m of soybeans [host stage] in number of fields (f) week of September 3: Gulf Coast> 2nd to 3rd instars 1-15 (7) [pod] in 4f, Coastal Plains> 3rd to 4th instars 3-12 (7.7) [pod] in 3f (T. Lemons), Wiregrass> 2nd to 3rd instars 8-10 (9) [early pod to late pod] in 2f (W.N. Stephenson), Central Alabama> 3rd to 5th instars 1-6 (3) [pod] in 3f (C. Knox, N. Wilson), Black Belt> 2nd to 5th instars 7 (7) [pod] in 2f (T.I. Pigott, G. Walker), and Sand Mountain> 1st to 2nd instars 2-3 (2.5) [pod] in 2f (W.A. Smith). FLORIDA - District> County= status on soybeans September 18: NW> Santa Rosa and Escambia= still problem, infested foliage in untreated fields. (M. Donahoe).

CORN EARWORM (*Heliothis zea*) - MARYLAND - District> County= status on soybeans week ending September 12: Eastern Shore> Somerset, Worcester, and Wicomico= very damaging levels throughout, populations averaged 2 per 0.3 row m; averaged 2-3 per 0.8 sq m in drilled beans, heaviest at 10 per 0.8 sq m, intensive aerial treatment needed; no economic levels in central shore area to September 12. (R. Hochmuth).

SOUTHERN GREEN STINK BUG (*Nezara viridula*) - FLORIDA - District> County= mostly this species on soybeans: NW> Jackson= population increased in some areas September 3 and began to increase, mostly around borders of fields September 12 (J.E. Arnold); and Santa Rosa and Escambia= increased, numerous young nymphs seen September 18 (M. Donahoe).

PEANUTS

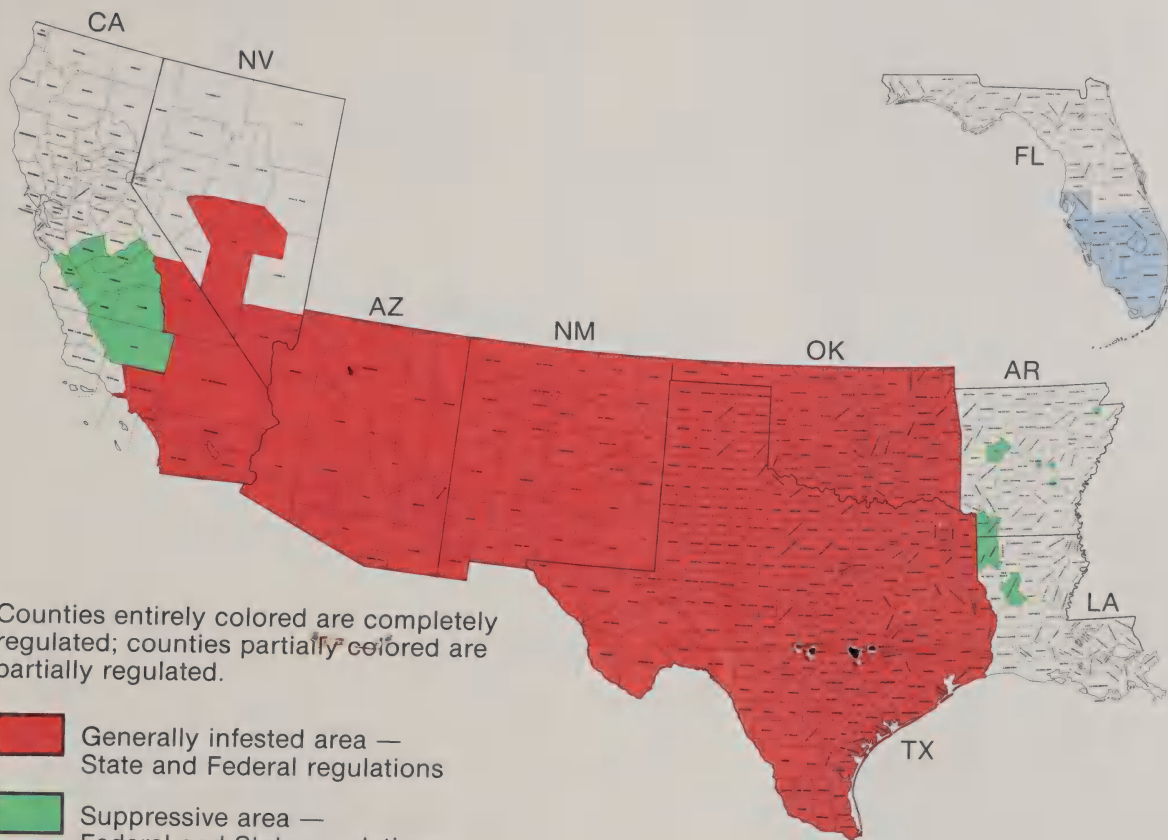
INSECTS

VELVETBEAN CATERPILLAR (*Anticarsia gemmatilis*) - FLORIDA - District> County= status on peanuts September 10: NW> Jackson= made up 94% of foliar-feeding larvae in untreated fields south of Greenwood. Most larvae very young, (some fully grown from previous brood) averaged 40.3-120 per 0.3 row m. (W.B. Tappan).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - FLORIDA - District> County= status on peanuts September 12: NW> Jackson= still problem in many fields, harvest should be considered. (J.E. Arnold).

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - FLORIDA - District> County= status on peanuts September 4: NW> Jackson= problem for past 3-4 weeks in nonirrigated fields, rainfall scattered. Population buildups in dry areas greater than in areas with normal rainfall. (W.B. Tappan).

Pink Bollworm Quarantines



Counties entirely colored are completely regulated; counties partially colored are partially regulated.

- Generally infested area —
State and Federal regulations
- Suppressive area —
Federal and State regulations
- State regulations only —
Suppressive area

Restrictions are imposed on movement of regulated articles from a regulated area as follows:

1. From red into or through green, blue or white.
2. From green into or through blue or white.
3. Green into green.
4. Within green.*
5. From blue into any other area.

* If it is determined by the inspector that a hazard of spread exists.

Consult your State or Federal plant protection inspector or your county assistance regarding exact areas under regulation and requirements for moving regulated articles. For detailed information see 7 CFR 301.52 for Federal quarantine and regulations.

See reverse side for list of regulated articles

The Following Regulated Articles Require a Certificate or Permit Year-Round Except as Indicated

1. Cotton and wild cotton, including all parts of such plants.
 2. Seed cotton.
 3. Cottonseed.
 4. Cottonseed hulls.
 5. Cotton lint.
Baled cotton lint is exempt if compressed to a minimum of 22 pounds per cubic foot.
Baled cotton lint moving from the generally infested area into the suppressive area is exempt if the lint is from seed cotton produced in the suppressive area and moved to the generally infested area for ginning, provided the identity of the baled cotton lint is maintained.
Samples of cotton lint of the usual trade size are exempt. The samples may be assembled in a single package for shipment.
 6. Cotton linters.
Linters are exempt if compressed to a minimum of 22 pounds per cubic foot.
Samples of cotton linters of the usual trade size are exempt. Samples may be assembled in a single package for shipment.
 7. Cotton waste produced at cotton gins, cottonseed oil mills, and cotton textile mills.
Lint cleaner waste is exempt if compressed to a minimum of 22 pounds per cubic foot.
 8. Cotton gin trash.
 9. Used bagging and other used wrappers for cotton.
 10. Used cotton harvesting equipment and used cotton ginning and cotton oil mill equipment.
 11. Okra and kenaf, including all parts of such plants except canned or frozen okra.
Edible okra is exempt if produced during the period December 1 to May 15 inclusive, except that okra consigned to California is exempt only if produced during the period of January 1 to March 15 inclusive.
 12. Any other products, articles, or means of conveyance of any character whatsoever, not covered by the above, when it is determined by an inspector that they present a hazard of spread of the pink bollworm and the person in possession thereof has been so notified.
-

COTTON

INSECTS

SOYBEAN LOOPER (*Pseudoplusia includens*) - FLORIDA - District> County= status on cotton September 18: NW> Santa Rosa= defoliation 50% in some fields near Jay. (M. Donahoe).

MISCELLANEOUS FIELD CROPS

INSECTS

A WEEVIL (*Smicronyx pinguis*) - MARYLAND - New State record. District> County= collection data from *Helianthus* sp. (a wild sunflower): NC> Baltimore= at Dundalk, August 15, 1979, by R. Sponaugle, and determined by D.M. Anderson. (E.J. Ford).

GENERAL VEGETABLES

INSECTS

SPOTTED ASPARAGUS BEETLE (*Crioceris duodecimpunctata*) - CALIFORNIA - New county record. District> County= collection data from *Asparagus* sp. (volunteer asparagus): San Joaquin Valley> San Joaquin= 5 specimens on leaves of 3 plants on levee part of navy yard, on east end of Rough and Ready Island, July 7, 1980, collected by C. Irwin, determined by K. Brown, and confirmed by T. Seeno. (C.S. Papp).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (*Laspeyresia pomonella*) - OHIO - District> County= adults in pheromone trap August 26 to September 2: NE> Wayne= 8. (F. Hall).

REDBANDED LEAFROLLER (*Argyrotaenia velutinana*) - OHIO - District> County= adults in pheromone traps August 26 to September 2: NE> Wayne= none. (F. Hall).

WHITE APPLE LEAFHOPPER (*Typhlocyba pomaria*) - OHIO - District> County= counts per leaf on Red Delicious trees September 3: C> Fairfield= second generation peaked at 0.15, 47% adults. (R.P. Holdsworth).

SMALL FRUITS

INSECTS

WESTERN GRAPELEAF SKELETONIZER (*Harrisina brillians*) - CALIFORNIA - District> County= larvae on yard grapes September 8: San Joaquin Valley> Kern= various stages, averaged 100 on 1 plant in some cases, damaged plants at Delano. (C.S. Papp).

ORNAMENTALS

INSECTS

BLACK VINE WEEVIL (*Otiorhynchus sulcatus*) - KANSAS - New State record. District> County= collection data from *Juniperus horizontalis* (creeping juniper): EC> Johnson= collected at residence at Olathe, June 30, 1980, by L.D. Stouse, and determined by G.A. Salsbury. (K.O. Bell, Jr.).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - OHIO - New county records. District> County= larvae and adults collected from *Pinus sylvestris* (Scotch pine): WC> Darke= on residential property at Versailles, August 21, 1980, by R.D. Madison and P. Kauffman, and determined by R.M. Reidel; and SW> Montgomery= on residential property at Dayton, August 26, by R.D. Madison and P. Kauffman, and determined by P. Kauffman. (R.E. Hite). MARYLAND - New host record for State. District> County= collection data from *Pinus taeda* (loblolly pine): Eastern Shore> Wicomico= larvae and adults in sample from 5-year-old tree at Allen, August 22, 1980, collected by R. Whitney, and determined by R.A. Dekker. (D. Fieselman).

INSECTS

SMALLER EUROPEAN ELM BARK BEETLE (*Scolytus multistriatus*) - NORTH DAKOTA - New county records. District> County= collection data from multilure pheromone sticky board traps on *Fraxinus pennsylvanica* (green ash): NW> Ward= adult collected (city unknown) August 12, 1980, collected and determined by W.J. Brandvik. (W.J. Brandvik). Collection data from attractant traps: SE> Logan= adults collected (city unknown) August 28, 1980; and NE> Nelson and EC> Steele= (cities unknown) both collected August 27. All 3 collected by C.G. Scholl and determined by E. Balsbaugh. (E. Balsbaugh, C.G. Scholl).

NATIVE ELM BARK BEETLE (*Hylurgopinus rufipes*) - NORTH DAKOTA - New county records. District> County= collection data from attractant traps: NW> Ward= adults collected from *Fraxinus pennsylvanica* (green ash), city unknown, August 12, 1980, collected and determined by W.J. Brandvik. (W.J. Brandvik). WC> McLean= adults on pole near Washburn, August 19, collected and determined by W.J. Brandvik; and SE> Logan= adults on pole at Fredonia, August 28, by C.G. Scholl, and determined by E. Balsbaugh. (E. Balsbaugh et al.).

AN AEGERIID MOTH (*Thamnospectica culiciformis*) - CALIFORNIA - New county record. District> County= collection data: Sierra Mountains> Nevada= collected at south end of Bowman Lake, June 22, 1980, by T. Eichlin and G. Buxton, and determined by T. Eichlin. Known hosts for this Holarctic species is birch in Europe and alder in western United States. (C.S. Papp).

MAN AND ANIMALS

INSECTS

AN IXODID TICK (*Ixodes kingi*) - IDAHO - New county record. District> County= collection data from *Mustela frenata* (weasel): SW> Ada= larvae, nymphs, and adults taken June 1980, (city and date not given) by G.L. Ralston and C.R. Baird, and determined by J.E. Keirans. (H.W. Homan).

AN IXODID TICK (*Ixodes sculptus*) - IDAHO - New county record. District> County= collection data from Mustela frenata (weasel): SW> Ada= larvae, nymphs, and adults taken June 1980, (city and date not given) by G.L. Ralston and C.R. Baird, and determined by J.E. Keirans. (H.W. Homan).

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

SKELETONWEED RUST (*Puccinia chondrillina*) - IDAHO - District> County= status on Lygodesmia juncea (skeletonweed) August 20: SW> Boise and Gem= released and well established at numerous sites. (D.E. Foster).

INSECTS

A WEEVIL (*Ceutorhynchus litura*) - IDAHO - District> County= status on Cirsium arvense (Canada thistle) August 20: N> Kootenai at Harrison, Bonner at Clagstone, and SC> Blaine at Bellevue= damage due to stem boring at release sites; thistle densities at sites light, weevil appeared to be maintaining. (D.E. Foster).

A WEEVIL (*Rhinocyllus conicus*) - IDAHO - District> County= status on Carduus nutans (musk thistle) August 20: E> Caribou, Bingham, and Lemhi= established. (D.E. Foster).

A COLEOPHORID MOTH (*Coleophora parthenica*) - IDAHO - District> County= status on Salsola kali (Russian thistle) August 20: SW> Owyhee and SC> Lincoln= established and spreading to areas adjacent to original release site at Castle Butte and near Dietrich, respectively. (D.E. Foster).

A CECIDOMYIID MIDGE (*Cystiphora schmidtii*) - IDAHO - District> County= status on Lygodesmia juncea (skeletonweed) August 20: SW> Boise and Gem= released and well established at numerous sites. (D.E. Foster).

A TEPHRITID FLY (*Urophora affinis*) - IDAHO - District> County= status on Centaurea maculosa (spotted knapweed) August 20: N> Bonner and E> Lemhi= populations well established at 2 sites and 1 site, respectively, releases made at 3 additional sites in latter county. (D.E. Foster).

AN ERIOPHYID MITE (*Eriophyes chondrillae*) - IDAHO - District> County= status on Lygodesmia juncea (skeletonweed) August 20: SW> Boise and Gem= released and well established at numerous sites, 12 additional releases in Garden Valley and Gardena areas. (D.E. Foster).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - NORTH DAKOTA - Adult survey of mainly Melanoplus bivittatus and Melanoplus femurrubrum with Melanoplus packardii, Melanoplus sanguinipes, Melanoplus differentialis, Melanoplus dawsoni, and Camnula pellucida also present. Development 3rd instar up to adults. (Nelson, C.G. Scholt).

District> County	Average per 0.8 sq m		Range per 0.8 sq m	
	Field	Margin	Field	Margin
SW> Adams	4.2	8.1	-1 to 15	-1 to 20
NC> Bottineau	1.7	4.2	0-6	0-11
NC> McHenry	2.9	5.9	0-8	-1 to 20
SC> Emmons	2.3	6.4	-1 to 12	-1 to 15
SC> Grant	4.1	10	-1 to 10	-1 to 20
SC> Morton	2.9	7.7	-1 to 9	-1 to 18

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= larval infestations week of September 4: SW> Yuma= 2-10% and SE> Pima= 5 per 50 bolls. Adults per pheromone trap per day: SW> Yuma= 7-52 and C> Pinal= 20-23. (L. Eiland et al.). Larval infestations week of September 12: SW> Yuma= 0-13%, C> Maricopa= 1-12%, Pinal= 4.6%, and SE> Graham= 0-14%. Adults per pheromone trap per day: C> Maricopa= 0-10, SW> Yuma= 3-20, and C> Pinal= 8-10. (M. Andreatta et al.).

HAWAII PEST REPORT

New State Records - A PHALACRID BEETLE (*Stilbus apicalis*) - Island= collection data: Oahu= series of specimens collected from light trap on air force base at Honolulu, in March 1980, by D.H. Oi and D.J. Preston, and determined by P.J. Spangler and W. Steiner. Larvae believed to develop in heads of composite flowers. (S.Y. Higa).

A SCATOPSID FLY (*Scatopse notata*) - Island= collection data: Oahu= 2 females collected in light trap at Pier 32, Honolulu, in April 1979, by J.W. Beardsley, and determined by E.F. Cook. Larvae of this family associated with rotting vegetable matter, dung, etc. (D.E. Hardy).

New island record - A NYMPHALID BUTTERFLY (*Agraulis vanillae vanillae*) - Island= collection data: Hawaii= adults seen for first time on May 18, 1980, at Kailua (Kona) by L. Nakamura and M. McAlister, 3 adults collected in same area by L. Nakamura and C. Okumoto. Adults seen alighting on *Lantana camara* (lantana) and *Passiflora foetida* (redfruit passionflower) vines. Full-grown larva collected from the vine, determined by J.K. Fujii. New locality record: On July 16, 1980, adult collected at Hilo by L. Shimoda. Larvae feed on foliage of commercial passion fruit and other Passiflora species. (J.K. Fujii).

DETECTION

NEW STATE RECORDS

DISEASES

WHITE LINE MOSAIC VIRUS - WISCONSIN - Sheboygan County. (p. 653).

SOYBEAN CYST NEMATODE (Heterodera glycines) - MARYLAND - Worcester County. (p. 657).

INSECTS

BLACK VINE WEEVIL (Otiorhynchus sulcatus) - KANSAS - Johnson County. (p. 660).

AN ERIOPHYID MITE (Oxypleurites acidotus) - FLORIDA - District> County= collection data from Baccharis halimifolia (groundsel): S> Brevard= adults moderately infested leaves of 2 plants at Cape Canaveral, May 29, 1980, collected by R.E. Burns and W.P. Henderson, determined by H.A. Denmark, and confirmed by E. Baker. Plants growing in wild. (F.W. Mead).

A PHALACRID BEETLE (Stilbus apicalis) - HAWAII - Oahu Island. (p. 662).

A SCATOPSID FLY (Scatopse notata) - HAWAII - Oahu Island. (p. 662).

A WEEVIL (Smicronyx pinquius) - MARYLAND - Baltimore County. (p. 659).

NEW COUNTY RECORDS

DISEASES

WHITE LINE MOSAIC VIRUS - WISCONSIN - Manitowoc, Racine, Washington, and Ozaukee. (p. 653).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - OHIO - Darke and Montgomery. (p. 660).

SOYBEAN CYST NEMATODE (Heterodera glycines) - KENTUCKY - Lyon. MARYLAND - Dorchester. (p. 657).

INSECTS

AN AGERIID MOTH (Thamnosphencia culiciformis) - CALIFORNIA - Nevada. (p. 660).

A DIASPIDID SCALE (Diaspis dignus) - FLORIDA - District> County= collection data from Eryngium yuccifolium (buttonsnakeroot): NE> Baker= adults on leaves along roadside near Macclenny, May 28, 1980, collected by H. Collins and C. Webb, and determined by A.B. Hamon. (H. Collins, C. Webb).

AN IXODID TICK (Ixodes kingi) - IDAHO - Ada. (p. 660).

AN IXODID TICK (Ixodes sculptus) - IDAHO - Ada. (p. 661).

NATIVE ELM BARK BEETLE (Hylurgopinus rufipes) - NORTH DAKOTA - McLean, Logan, and Ward. (p. 660).

A NYMPHALID BUTTERFLY (Agraulis vanillae vanillae) - HAWAII - Hawaii. (p. 662).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NORTH DAKOTA - Logan, Nelson, Steele, and Ward. (p. 660).

SPOTTED ASPARAGUS BEETLE (Crioceris duodecimpunctata) - CALIFORNIA - San Joaquin. (p. 659).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - INDIANA - Ohio, Switzerland, Clark, Floyd, Harrison, and Crawford. (p. 654).

WEEDS

DALMATIAN TOADFLAX (Linaria dalmatica) - CALIFORNIA - District> County= collection data: Sierra Mountains> Placer= light infestation found between Homewood and Tahoe Pines, August 11, 1980, by K. Stark, and determined by D. Barbe. (C.S. Papp).

POVERTYWEED (Iva axillaris) - CALIFORNIA - District> County= collection data: Central Coast> San Luis Obispo= heavily infested area about 0.1 ha in dry drainage ditch near San Miguel, July 3, 1980, collected by P. Scholetter and R. Hopkins, and determined by D. Barbe. (C.S. Papp).

SCOTCH THISTLE (Onopordum acanthium) - CALIFORNIA - District> County= collection data: Sacramento Valley> Sutter= infestation light at Yuba City, July 6, 1980, collected by D. Wilson, and determined by D. Barbe. (C.S. Papp).

OTHER NEW RECORDS

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - MARYLAND - New host record. (p. 660).

INSECTS

A NYMPHALID BUTTERFLY (Agraulis vanillae vanillae) - HAWAII - New locality record. (p. 662).

TRAP COLLECTIONS

°C	precip.	trap	ACw	Aw	BAW	BCw	CEw	Clo	CoM	ECB	FAW	GCW	RLr	SmC	TbH	TmH	ToB	VCw	YAW
CALIFORNIA																			
		Bellota 9/14	B	4	60	4	3					3		1					
		Turner 9/15	B	1	1														
FLORIDA																			
		Gainesville 9/11-17	B	9	5	17					41	19							1
KANSAS																			
		Garden City 9/16-18	B	0			34			2									3
		Rossville 9/19	B	0		27				7	21								7
MISSISSIPPI																			
		Stonerville 9/12-18	2B	73	1950	23	3685	2503			135			5	1				22
NEW JERSEY																			
		Bridgeton 9/2-9	B			22	90	3		128	10							7	
		Vineford 9/2-9	B			16	168	4		14	21							0	
NORTH DAKOTA																			
		Bottineau 8/28	B	-	-			-		-								-	
		Cavalier 8/25	B	-	1			-		1								-	
OHIO (County)																			
		Wayne 9/11-17	B	13		4	21			48	171							1	
TENNESSEE (Counties)																			
		Franklin 9/12-18	B	21			18										11		3
		Madison 9/12-18	B	81	58	72	245	4		75	581						2	3	36
TEXAS																			
		College Station 9/9-16	B	21		0	46	3			1			0	0	0	0		0
WISCONSIN																			
		Evansville 9/9-15	B	18		-	60			11								-	
		Mazomanie 9/9-15	B	10		0	14			21								0	

ABBREVIATIONS:

B	Blacklight	ACw	Army Cutworm	Clo	Cabbage Looper	RLr	Redbanded Leafroller	VCw	Variegated Cutworm
M	Mercury vapor	Aw	Armyworm	CoM	Codling Moth	SmC	Salmarsh Caterpillar	YAW	Yellowstriped Armyworm
U	Ultraviolet	BAW	Beet Armyworm	ECB	European Corn Borer	TbH	Tobacco Hornworm		
P	Pheromone	BCw	Black Cutworm	FAW	Fall Armyworm	TmH	Tomato Hornworm		
		CEw	Corn Earworm	GCw	Granulate Cutworm	TXB	Tobacco Budworm		

UNITED STATES DEPARTMENT OF AGRICULTURE
Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

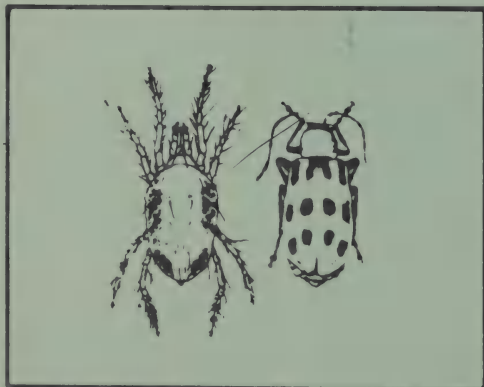
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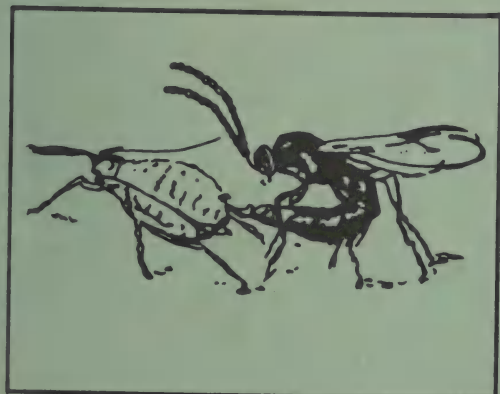
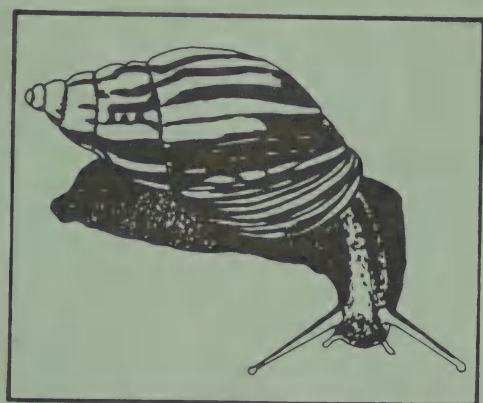
Cooperative Plant Pest Report

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PROCUREMENT SECTION
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No. 36



This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49-52, 1975.

Correspondence should be directed to:

CPPR

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

NORTHERN CORN ROOTWORM problems indicated in South Dakota for first year corn following small grains and flax in 1981. Adult CORN ROOTWORMS in Wisconsin still above 10-year average. (p. 672).

TAN SPOT and SOIL-BORNE WHEAT MOSAIC VIRUS caused an estimated 6.5% wheat loss in Kansas in 1980. (p. 674-675).

First report of BEAN ANTHRACNOSE on commercial crops in California. (p. 682).

Detection

New State records include WHITE LINE MOSAIC VIRUS in New Hampshire (p. 671), DIPLODIA FRUIT ROT and TOBACCO WILT in Missouri, and SOYBEAN CYST NEMATODE in Ohio (p. 682), a BRAMBLEBERRY LEAFHOPPER in Oregon (p. 683), PINWOOD NEMATODE in North Carolina and WESTERN GALL RUST in Ohio (p. 684), a WEEVIL in Kentucky (p. 685), a KATYDID in Rhode Island, a TETRANYCHID MITE in Florida, and an IXODID TICK in Oklahoma (p. 686), FORMOSAN SUBTERRANEAN TERMITE in Florida (p. 686-687), a LADY BEETLE in Rhode Island (p. 687), a MYMARID WASP in Wisconsin and 2 STREPSIPTERA in Georgia (p. 688), and a CYDNID BUG in Connecticut and a CERCOPID BUG in Pennsylvania (p. 691).

Special Reports

Pest Detection in the United States - 1980. (p. 695-703).

Witchweed Quarantines. Map. Centerfold.

● Announcing New Plant Protection and Quarantine Publications. (p. 704).

This is the final issue reporting pest activity. The CPPR will no longer be published. For a preview of what is coming, see above special report on new publications.

Reports in this issue are for the week ending September 26 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

HELMINTHOSPORIUM LEAF SPOT (*Cochliobolus* (*Bipolaris*) *carbonum*) - IOWA - District> County= prevalence/severity on corn [dent] for 2 week period ending August 6, 1980: C> Story and Tama= 25%/3%, SE> Washington and Keokuk= 45%/trace to 3%, NW> O'Brien= 5%/trace, Pocahontas= 39%/trace to 3%, and NC> Franklin, Butler, and Wright= 10%/trace to 3%. (D.J. Williams).

NORTHERN LEAF BLIGHT (*Setosphaeria* (*Exserohilum*) *turcica*) - IOWA - District> County= prevalence/severity on corn [dent] for 2 week period ending August 6: NC> Franklin, Butler, Wright, and Humboldt= trace to 3%/trace. (D.J. Williams).

COMMON SMUT (*Ustilago maydis*) - KANSAS - District> County= prevalence on corn [mature] week ending September 1: NE> Marshall= 5%, Brown= trace, Doniphan= none, and NC> Washington= trace. Prevalence on corn week ending September 26: SW> Stanton and Grant= 0.5-1% of ears in fields surveyed. (T. Sim, IV).

INDIANA - Common smut on corn September 7-13 (R. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Madison	trace	maturity
C> Bartholomew	trace	maturity
C> Shelby	trace	maturity
EC> Henry	1	maturity
EC> Wayne	trace	maturity
SE> Franklin	trace	all dent
SE> Dearborn	not seen	all dent
SE> Ohio	not seen	all dent
SE> Switzerland	trace	maturity
SE> Jefferson	not seen	maturity
SE> Ripley	trace	maturity
SE> Clark	trace	maturity
SE> Scott	not seen	maturity
SE> Jennings	not seen	all dent
SC> Jackson	trace	dent

COMMON MAIZE RUST (*Puccinia sorghi*) - IOWA - District> County= prevalence/severity on corn [dent] for 2 week period ending August 6: C> Story= 50-100%/trace to 3%, Tama= 75%/trace to 3%, SE> Washington and Keokuk= 45%/trace to 3%, C> Jasper= 85%/trace to 3%, NW> O'Brien= 50-75%/trace, and Pocahontas= 60%/trace to 3%. (D.J. Williams).

A FUSARIUM STALK ROT (*Fusarium* sp.) - KANSAS - Became obvious statewide as corn approached maturity. Some lodging seen week ending September 19.

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%) plants lodged</u>
NE> Marshall	5	1
NE> Nemaha	1	trace
NE> Brown	trace	none
NE> Doniphan	trace	none
NC> Washington	1	trace

Kansas - *Fusarium* sp. became fairly obvious statewide as sorghum approached maturity. Some Lodging seen. District> County= prevalence on sorghum [hard dough] week ending September 19: NE> Marshall= 1% and Nemaha= trace in 1 field each; prevalence on sorghum week ending September 26: SC> Harvey, Sedgwick, and Kingman= trace in dryland fields. (T. Sim, IV). IOWA - Many commercial corn fields and monitoring plots exhibited premature stalk rot due to drought and high temperatures between planting and silking in June and July. Lodging may become serious if infected fields experience windy weather before harvest. (D.J. Williams).

STALK ROTS - KANSAS - District> County= prevalence on sorghum [hard dough] week ending September 26: SC> Kiowa and Edwards= none in irrigated fields. (T. Sim IV). INDIANA - Various fungal organisms of stalk rots seen. Survey on corn September 7-13, severity indicates percent of stalks lodged (R. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen	not seen	maturity
C> Bartholomew	not seen	not seen	maturity
C> Shelby	2	0	maturity
EC> Henry	not seen	not seen	maturity
EC> Wayne	not seen	not seen	maturity
SE> Franklin	2	1	all dent
SE> Dearborn	not seen	not seen	all dent
SE> Ohio	not seen	not seen	all dent
SE> Switzerland	10	4	maturity
SE> Jefferson	not seen	not seen	maturity
SE> Ripley	2	0	maturity
SE> Clark	not seen	not seen	maturity
SE> Scott	6	0	maturity
SE> Jennings	not seen	not seen	all dent
SC> Jackson	not seen	not seen	dent

EAR ROTS - INDIANA - *Fusarium* and *Penicillium* spp., alone or in combination, organisms most commonly observed. Survey on corn September 7-13 (R. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	6	trace	maturity
C> Bartholomew	7	10	maturity
C> Shelby	2	trace	maturity
EC> Henry	4	8	maturity
EC> Wayne	2	5	maturity
SE> Franklin	4	5	all dent
SE> Dearborn	not seen	not seen	all dent
SE> Ohio	16	1	all dent
SE> Switzerland	not seen	not seen	maturity
SE> Jefferson	4	trace	maturity
SE> Ripley	2	trace	maturity
SE> Clark	not seen	not seen	maturity
SE> Scott	6	1	maturity
SE> Jennings	4	2	all dent
SC> Jackson	4	3	dent

COVERED KERNEL SMUT (*Sphacelotheca sorghi*) - NEW MEXICO - District> County= prevalence on sorghum week ending September 12: SE> Eddy= 10% in 1 field at Artesia. (M. Clayshulte).

SOOTY STRIPE (*Ramulispora sorghi*) - KANSAS - District> County= prevalence on sorghum week ending September 19: NE> Pottawatomie= 60% in 1 field. (T. Sim, IV).

CHARCOAL ROT (*Macrophomina phaseolina*) - NEW MEXICO - District> County= status on sorghum week ending September 12: SE> Eddy= affected few plants at Artesia. (M. Clayshulte).

WHITE LINE MOSAIC VIRUS - NEW HAMPSHIRE - New State and county records. County= collection data from *Zea mays* (corn), symptoms in 1 field each, 54 fields surveyed: Belknap= on 3 of about 1,000 plants at Gilmanston, July 30, 1980; Hillsborough= on 2-3 plants at Hollis, August 1. Both collected by T.E. Johnson and determined by A. Gotlieb using serology-ELISA method. (T.E. Johnson).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= status on sorghum week ending September 19: NE> Pottawatomie= trace numbers of new tillers showed symptoms. (T. Sim, IV).

INSECTS

CORN EARWORM (*Heliothis zea*) - NEW YORK - First of season. District> County= adult status: W> Ontario and S> Tompkins= activity in blacklight traps during first week of September; Long Island area> collections at blacklight trap stations increased, 127-294 per week during early September, activity decreased in most stations by mid-September (H.R. Willson); and Hudson Valley area> heavy pressure on late sweet corn (Straub).

FALL ARMYWORM (*Spodoptera frugiperda*) - KANSAS - Egg masses sometimes in sorghum heads, particularly in Rice County; unknown whether most will leave heads after hatching or concentrate feeding on heads. In most fields in southwestern area, most larvae found behind leaf sheaths or feeding on brace roots, sometimes caused lodging. Survey (asterisk (*) indicates movement to sorghum from pigweed in fields, pigweed defoliated or being defoliated) week ending September 12 (G.A. Salsbury et al.):

<u>District> County</u>	<u>Average per head</u>	<u>Number of fields</u>
C> Ellis	0	2
C> Rush	0	4
WC> Ness	0.1	1
WC> Greeley	0	2
WC> Wallace	0	1
SW> Hodgeman	0	1
SW> Ford	0-0.1	6
SW> Meade	0-0.1	4
SW> Gray	0-0.5	3
SW> Finney	0 to trace	3
SW> Seward*	0-0.1	3
SW> Stevens*	0	4
SW> Morton*	0	3
SW> Hamilton	0	2
NC> Phillips	0	1
NC> Jewell	0	1

MISSOURI - Area> fall armyworm and CORN EARWORM (*Heliothis zea*) on grain sorghum heads week ending September 20: SC and SW> populations economic, larvae up to 60 per 100 heads. (R.E. Munson).

BEET ARMYWORM (*Spodoptera exigua*) - KANSAS - Survey on sorghum (asterisk (*) indicates movement to sorghum from pigweed in fields, pigweed defoliated or being defoliated) week ending September 12 (B.D. Hilbert et al.):

District> County	Average per head	Number of fields
C> Ellis	0	2
C> Rush	0	4
C> Barton	0	1
C> Rice	0	2
WC> Ness	0	1
WC> Greeley	0	2
WC> Wallace	0	1
SW> Hodgeman	0	1
SW> Ford	0	6
SW> Clark	0	1
SW> Meade	0	4
SW> Gray	0	3
SW> Finney	0	3
SW> Seward*	0.1-0.3	3
SW> Stevens*	0.2-0.9	4
SW> Morton*	0.2-0.4	3
NC> Phillips	3	1
NC> Jewell	trace	1
NE> Jackson	15-60	2

CORN ROOTWORMS (*Diabrotica* spp.) - SOUTH DAKOTA - NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) adults heavy, indicate problems for first year corn in 1981 following small grains and flax. (D.D. Walgenbach). WISCONSIN - *Diabrotica* spp. statewide survey showed State average 1.6 per plant, decreased from 2.3 per plant found summer 1979, but above 10-year average of 1.3 per plant in August 1980. District> County= adults per corn plant: NW> 0.3, NC> 0, NE> 0.1, WC> 1.9, C> 0.3, EC> 0.9, SW> 2.2, SC> 2.6, and SE> 2.3. (O.L. Lovett).

UTAH - New county record. District> County= WESTERN CORN ROOTWORM (*Diabrotica virgifera*) collection data from *Zea mays* (corn): E> Uintah= at Vernal, September 5, 1980, collected by D. Chandler, and determined by W.J. Hanson and R.S. Roberts. (R.S. Roberts). Status on corn week of September 25: N> Cache= adults very heavy at Logan. (D.W. Davis). KENTUCKY - New county records. *Diabrotica virgifera* adults collected from *Zea mays* (corn) in 1980. All determined by P.E. Sloderbeck. (P.E. Sloderbeck).

District> County	City	Collection date	Collector
Purchase> Calloway	Murray	Jul 30	R. McElroy
N> Boone	Verona	Aug 4	P.E. Sloderbeck
N> Carroll	Ghent	Aug 4	P.E. Sloderbeck
N> Gallatin	Warsaw	Aug 4	P.E. Sloderbeck
N> Grant	Crittenden	Aug 4	P.E. Sloderbeck
N> Henry	New Castle	Aug 4	P.E. Sloderbeck

District> County	City	Collection date	Collector
N> Kenton	Bracht	Aug 4	P.E. Sloderbeck
N> Owen	Long Ridge	Aug 4	P.E. Sloderbeck
N> Trimble	Bedford	Aug 4	P.E. Sloderbeck
Bluegrass> Fayette	Lexington	Aug 1	P.E. Sloderbeck
C> Breckinridge	Irvington	Aug 6	K.V. Yeargan
C> Hardin	Elizabethtown	Jul 30	D. Brandon

OHIO - New county records. *Diabrotica virgifera* adults collected from Zea mays (corn) in 1980, all determined by S. Clement. (R.W. Wadleigh).

District> County	City	Collection date	Collector
SC> Jackson	Jackson	Aug 11	S. Clement
SC> Gallia	Gallia	Aug 11	S. Clement
SC> Lawrence	Eifort	Aug 11	G. Needham
SE> Meigs	Middleport	Aug 12	G. Needham
SE> Washington	Little Hocking	Aug 12	W. Rubink
SE> Morgan	Chesterhill	Aug 12	W. Rubink
SE> Athens	Hockingport	Aug 12	not reported

CORN LEAF APHID (*Rhopalosiphum maidis*) - ILLINOIS - Estimations per 10 corn fields per county during EUROPEAN CORN BORER (*Ostrinia nubilalis*) survey week ending October 17 (A.M. Agnello):

District	Average infestation (%)	District	Average infestation (%)
NW	9	WSW	20
NE	37	ESE	20
W	22	SW	6
C	24	SE	6
E	31		

CHINCH BUG (*Blissus leucopterus leucopterus*) - KANSAS - District> County= survey: NC> Clay, Cloud, Republic, Washington, and parts of Jewell= nymphs unusually heavy on corn behind leaf sheaths September 10-17 (B.D. Hilbert et al.); C> Dickinson and Marion= most still nymphs of all sizes, few of third generation becoming adults in sorghum by September 16-17; and NE> Riley and C> Marion= adults only, sometimes heavy, in wintering quarters in bunchgrasses near sorghum fields. Survey per sorghum plant, very rough estimates, September 15-18 (K.O. Bell, Jr.):

District> County	Counts per plant	Number of fields
C> Dickinson	200	1
C> Marion	200-275	3
C> McPherson	30	1
NE> Riley	40-85	3
EC> Wabaunsee	105	1
EC> Lyon	40	1
NC> Jewell	100-200	2

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (*Puccinia recondita* f.sp. *tritici*) - KANSAS - Reduced wheat yields only trace in 1980. Infections occurred much later than normal and disease did not become prevalent statewide until late May. (T. Sim, IV; W.G. Willis).

SPECKLED LEAF BLOTCH (*Septoria tritici*) - KANSAS - Estimated wheat loss 1% or 4,148,000 bushels in 1980. This foliar disease seen statewide, most prevalent in western one-third of State where above average rainfall this spring encouraged development. (T. Sim, IV; W.G. Willis).

WHEAT POWDERY MILDEW (*Erysiphe graminis* f.sp. *tritici*) - KANSAS - Estimated wheat loss 0.1% or 414,800 bushels in 1980, most often seen in thickly planted, heavily fertilized wheat in central and eastern areas, but above average rainfall in western one-third of State allowed disease to develop to damaging levels in that part of State as well. (T. Sim, IV; W.G. Willis).

CEPHALOSPORIUM STRIPE (*Cephalosporium gramineum*) - KANSAS - Estimated wheat loss 1.3% or 5,392,000 bushels in 1980. Prevalence somewhat less than levels seen in 1979, most prevalent in eastern one-half of State, seen more often in northwestern area. District> County= status on wheat week ending September 19: C> McPherson, SC> Harvey, and Sedgwick= most affected. (T. Sim, IV; W.G. Willis).

TAN SPOT (*Pyrenophora trichostoma*) - KANSAS - Estimated wheat loss 3.5% or 14,518,000 bushels in 1980. Cool, wet weather in late March provided ideal conditions, observed statewide and most serious through central one-third of State, especially in reduced tillage fields. Secondary spread occurred in late April and May, causing lesions on flag leaves. (T. Sim, IV; W.G. Willis).

TAKE-ALL (*Gaeumannomyces graminis* f.sp. *tritici*) - KANSAS - Reduced estimated wheat yields 0.6% or 2,488,800 bushels in 1980, slight increase over 1979 estimate. Few severely infected fields seen, disease more widespread in southern and eastern areas. (T. Sim, IV; W.G. Willis).

LOOSE SMUT (*Ustilago nuda*) - KANSAS - This disease and SMOOTH-SPORED BUNT (*Tilletia foetida*) each caused estimated wheat loss of 0.1% or 414,800 bushels in 1980, loose smut most prevalent in southern and eastern areas, latter disease in same areas during harvest. (T. Sim, IV; W.G. Willis).

HEAD SMUT (*Sphacelotheca reiliana*) - MINNESOTA - New county records. District> County= collection data from *Zea mays* (corn): C> Todd= from Staples in Villard Township, August 28, 1980, by H.G. Hoyer, determined by R.M. Sushak; Stearns= from Saint Martin in St. Martin Township, September 10, by C. Blonigen, determined by H.L. Bissonnette; and WC> Otter Tail= from Clithera in Girard Township, October 1, collected and determined by M.C. Schreiber. (D.D. Sreenivasam).

SCAB (*Fusarium* spp.) - KANSAS - Estimated wheat loss trace in 1980, most prevalent in southeastern area, but seen more often in irrigated wheat in western area, especially following corn or sorghum. (T. Sim, IV; W.G. Willis).

SOIL-BORNE WHEAT MOSAIC VIRUS - KANSAS - Estimated wheat loss 3% or 12,444,000 bushels in 1980, usually most damaging wheat disease but surpassed by TAN SPOT (*Pyrenophora trichostoma*). Early symptoms light as temperatures in March rose above normal, but cool, wet conditons in April allowed maximum symptom development, disease historically considered problem only in central and eastern areas but infected fields in irrigated southwestern areas became more apparent in recent years.

District> County	Yield in bushels per 0.4 ha		Site
	'Newton'	'Vona'	
NE> Jackson	67	52	variety plots
NE> Brown	70	67	Powhattan experiment field
NE> Riley	64	53	variety plots
NE> Riley	58	59	university agronomy farm
C> Rice	51	32	variety plots
C> Ellis	66	63	experiment station
SC> Sedgwick	66	35	variety plots
SC> Sumner	45	33	variety plots
SC> Harvey	53	61	experiment field
SC> Reno	50	34	variety plots
SC> Reno	39	40	south-central experiment field

'Vona' has excellent yield potential in absense of soil-borne wheat mosaic virus, averages 1 bushel per 0.4 ha more than 'Newton' at 13 experiment stations statewide. At above variety plots where virus severe, 'Newton' yielded 42% more than 'Vona'. (T. Sim, IV; W.G. Willis).

WHEAT STREAK MOSAIC VIRUS - KANSAS - Somewhat reduced from lower-than-average levels seen in 1979. Estimated wheat loss 0.3% or 1,224,400 bushels in 1980. Severe losses have not occurred since 1978, seen in widely scattered fields in south-central, central, and north-central areas, and late infections occurred over parts of northwestern area. (T. Sim, IV; W.G. Willis).

BARLEY YELLOW DWARF VIRUS - KANSAS - Estimated wheat loss trace in 1980, most prevalent through central one-third of area although infected fields seen in widely scattered fields in eastern and western thirds of State. Aphid vector populations light during spring. (T. Sim, IV; W.G. Willis).

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - KANSAS - District> County= status week ending September 12: SC> Kiowa= some early wheat and rye treated (G.A. Salsbury), WC> Ness= small larvae averaged 0.7 and 0.9 per 0.3 row m in early wheat (K.O. Bell, Jr.); and SW> Finney, Ford, Gray, and Seward= larvae (2-6 mm long), infestation spotty, 0-0.4 per 0.3 row m on 1 tiller wheat (K.O. Bell, Jr., M.L. Shuman).

Kansas - Fall armyworm status September 17: SW> Stevens, NC> Clay, Cloud, and C> Dickinson= infestations in early wheat (H.L. Brooks), and NE> Atchison= larvae (up to 3 cm long) average 4 and 6 per 0.09 sq m in 2 seedling alfalfa [3 cm tall] fields with wheat [1-2 tiller] as nurse crop, wheat starting to show serious damage but alfalfa only light damage (B.D. Hilbert). Survey on early planted wheat September 15-17 (K.O. Bell, Jr.):

District> County	Average per 0.3 row m		Host stage
	Larval size (mm)	Plant damage	
EC> Wabaunsee	-	0	1 tiller
EC> Geary	-	0	1 tiller
EC> Morris	6.4-25	trace	3 tiller
EC> Morris	-	0	1 tiller
C> McPherson	6.4-31.8	moderate	1-2 tiller
SC> Kiowa	6.4	light	1 tiller
SC> Kiowa	25	heavy	1 tiller
SC> Edwards	1.6-3.2	trace	1 tiller
SC> Edwards	1.6	trace	emerging

MISSOURI - District> County= fall armyworm status in fall-seeded wheat week ending September 13: NW and NC areas> populations heavy, and NW> Clinton and Caldwell= larvae destroyed stands. (Thomas).

BEET ARMYWORM (*Spodoptera exigua*) - TEXAS - Area> status on small grains week ending September 19: South Plains and Panhandle> still problem in some parts. (J.A. Jackman).

CHINCH BUG (*Blissus leucopterus leucopterus*) - KANSAS - District> County= prevalence on wheat week ending September 19: NE> Atchison= trace [2 tiller], nurse crop for alfalfa (B.D. Hilbert) and NC> Washington= moderate to heavy, volunteer in alfalfa, at 1 site. Survey on early planted wheat September 15-17 (K.O. Bell, Jr.):

District> County	Number per plant	Stand loss (%)	Host stage
EC> Wabaunsee	0	0	1 tiller
EC> Geary	0	0	1 tiller
EC> Morris	8	20	3 tiller
EC> Morris	0	0	1 tiller
C> McPherson	13	25	1-2 tiller
SC> Kiowa	0	0	1 tiller
SC> Kiowa	0	0	1 tiller
SC> Kiowa	0	0	1 tiller
SC> Edwards	0	0	1 tiller
SC> Edwards	0	0	emerging

TURF, PASTURES, RANGELAND

INSECTS

A DIASPIDID SCALE (*Odonaspis ruthae*) - FLORIDA - New county record. District> County= collection data from *Cynodon dactylon* (bermudagrass): C> Levy= adults scattered near boat ramp at Yankeetown, September 8, 1980, collected by A. Bentley and F. McHenry, and determined by A.B. Hamon. (A. Bentley, F. McHenry).

FORAGE LEGUMES

DISEASES

SPRING BLACK STEM AND LEAF SPOT (*Phoma medicaginis*) - KANSAS - Reappeared in several counties with cooler temperatures in northeastern area. District> County= prevalence on alfalfa [15-38 cm tall] week of September 19: NE> Riley, Nemaha, Marshall, and Pottawatomie= trace. (T. Sim, IV).

SUMMER BLACK STEM AND LEAF SPOT (*Cercospora medicaginis*) - KANSAS - No defoliation seen in alfalfa fields surveyed week ending September 19.

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host height (cm)</u>
NE> Riley	10	30
NE> Marshall	75	38
NE> Nemaha	trace	15
NE> Doniphan	15	20
NE> Pottawatomie	trace	25

Kansas - Summer black stem and leaf spot continued to be most widespread disease in south-central area week ending September 26. Prevalence decreased somewhat with cooler temperatures. District> County= prevalence and defoliation on alfalfa [host height]: SC> Harper= trace and none [33 cm], Barber= 100% and 50% [46 cm], and Edwards= trace and none [38 cm]. (T. Sim, IV).

SOUTHERN ANTHRACNOSE (*Colletotrichum trifolii*) - KANSAS - District> County= prevalence on alfalfa [38 cm tall] week ending September 26: SC> Edwards= trace in 1 field. (T. Sim, IV).

LEPTO LEAF SPOT (*Leptosphaerulina briosiana*) - KANSAS - District> County= prevalence on alfalfa [38 cm tall] week ending September 26: SC> Edwards= trace in 1 field. (T. Sim, IV).

ALFALFA RUST (*Uromyces striatus*) - KANSAS - District> County= prevalence on alfalfa week ending September 26: SC> Barber [46 cm tall] and Edwards= trace [38 cm tall] in 1 field each. (T. Sim, IV).

PYTHIUM DAMPING OFF (*Pythium* spp.) - KANSAS - District> County= prevalence on seedling alfalfa week ending September 26: SC> Kiowa= trace in 1 field. (T. Sim, IV).

ALFALFA MOSAIC VIRUS - KANSAS - District> County= prevalence on alfalfa [38 cm tall] week ending September 26: SC> Harper= trace in 1 field. (T. Sim, IV).

INSECTS

FALL ARMYWORM (*Spodoptera frugiperda*) - KANSAS - Most common larval species in seedling alfalfa. Stand damage sometimes serious, most striking in fields or parts of fields where stands thin. Stand damage light in Atchison County fields where wheat planted as "nurse crop," larvae still concentrating feeding on wheat. (B.D. Hilbert, K.O. Bell, Jr.). Survey on seedling alfalfa September 16-17 (K.O. Bell, Jr.):

<u>District> County</u>	<u>Larvae per 0.09 sq m</u>	<u>Number in sample</u>	<u>Host height (cm)</u>
NE> Marshall	0.5	most	5
NE> Pottawatomie	4	most	3-5
NE> Atchison	6	most	3
NE> Atchison	4	most	3
NC> Washington	trace	most	3
EC> Geary	1	14	3
C> Dickinson	0.1	7	3
C> McPherson	0	-	10
C> Saline	0	-	3.8

MISSOURI - Area> fall armyworm status on forage legumes week ending September 13: C and N> larvae heavy in new seedlings and stands destroyed in 2 of these areas. (R.E. Munson).

POTATO LEAFHOPPER (*Empoasca fabae*) - WEST VIRGINIA - District> County= average adults per sweep of alfalfa and average plant height September 16-17: SW> Mercer= 0.05 and 40 cm, E> Summers= 0.06 and 41 cm, Monroe= 0.47 and 43 cm, and Greenbrier= 0.06 and 25 cm. (G.L. Clement).

SOYBEANS

DISEASES

SOYBEAN POD AND STEM BLIGHT (*Diaporthe phaseolorum* f.sp. *sojae*) - INDIANA - Phomopsis sojae stage on soybeans September 7-13 (R. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>	<u>Host stage</u>
C> Madison	not seen	not seen	seed full size
C> Bartholomew	not seen	not seen	Pods yellowing
C> Shelby	80	0	harvest maturity
EC> Henry	56	0	harvest maturity
EC> Wayne	not seen	not seen	Pods yellowing
SE> Switzerland	not seen	not seen	harvest maturity
SE> Jefferson	not seen	not seen	seed full size
SE> Ripley	not seen	not seen	seed full size
SE> Clark	not seen	not seen	Pods yellowing
SE> Scott	not seen	not seen	seed full size
SE> Jennings	0	?	Pods yellowing
SC> Jackson	20	0	Pods yellowing

SOUTHERN BLIGHT (*Pellicularia* (*Sclerotium*) *rolfsii*) - ALABAMA - Area> prevalence/severity of imperfect stage on soybean plants week of September 17: Wiregrass> 2%/100% in 1 of 7 fields. (W.N. Stephenson).

PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*) - IOWA - District> County= prevalence on soybeans [mid to full pod] for 2 week period ending August 6: NW> O'Brien and Clay= trace to 3%, C> Story and Boone= trace, and Polk, Jasper, and SC> Warren= trace to 5%. (D.J. Williams).

A PHYTOPHTHORA ROOT ROT (*Phytophthora megasperma*) - WISCONSIN - District> County= status on soybeans week ending September 12: SC> Jefferson, Columbia, Rock, and SW> Lafayette= destroyed plants by root rot seen in few fields. (O.L. Lovett).

CHARCOAL ROT (*Macrophomina phaseolina*) - KANSAS - District> County= prevalence on soybeans week ending September 19: NE> Pottawatomie and Brown= 2-3% in fields, leaves dropping: week ending September 26: Common in many soybean fields, irrigated and dryland, nearly 100% of fields surveyed infected. Host stage physiological maturity for all counties except Harvey [leaf drop]. (T. Sim, IV).

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Severity (%)</u>
SC> Harvey	2	moderate
SC> Sedgwick	trace	light
NE> Pottawatomie	30	moderate
EC> Shawnee	25-100	moderate to severe
EC> Douglas	65-100	moderate to severe
EC> Franklin	80-85	moderate to severe
EC> Osage	100	severe
EC> Lyon	trace to 60	light to moderate

INDIANA - Charcoal rot survey on soybeans September 7-13 (R. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Madison	not seen	seed full size
C> Bartholomew	36	Pods yellowing
C> Shelby	92	harvest maturity
EC> Henry	16	harvest maturity
EC> Wayne	not seen	Pods yellowing
SE> Switzerland	25	harvest maturity
SE> Jefferson	not seen	seed full size
SE> Ripley	not seen	seed full size
SE> Clark	not seen	Pods yellowing
SE> Scott	not seen	seed full size
SE> Jennings	not seen	Pods yellowing
SC> Jackson	48	Pods yellowing

BROWN STEM ROT (*Phialophora gregata*) - INDIANA - Survey on soybeans September 7-13 (R. Schall):

<u>District> County</u>	<u>Prevalence (%)</u>	<u>Host stage</u>
C> Madison	not seen	seed full size
C> Bartholomew	4	Pods yellowing
C> Shelby	not seen	harvest maturity
EC> Henry	not seen	harvest maturity
EC> Wayne	5	Pods yellowing
SE> Switzerland	5	harvest maturity
SE> Jefferson	8	seed full size
SE> Ripley	not seen	seed full size
SE> Clark	not seen	Pods yellowing
SE> Scott	not seen	seed full size
SE> Jennings	12	Pods yellowing
SC> Jackson	12	Pods yellowing

SEPTORIA BROWN SPOT (*Septoria glycines*) - KANSAS - District> County= prevalence on soybeans [seed development] week ending September 26: SC> Kiowa= 90%. (T. Sim, IV). IOWA - District> County= prevalence/severity on soybeans [mid to full pod] for 2 week period ending August 6: NW> O'Brien and Clay= 99%/5-25% and C> Boone, Story, Polk, and SC> Warren= 99%/trace. (D.J. Williams).

SOYBEAN DOWNY MILDEW (*Peronospora manshurica*) - ALABAMA - Area> prevalence/severity on soybean plants week of September 17: Tennessee River> 7%/100% in 1 of 5 fields. (W.N. Stephenson). INDIANA - District> County= prevalence on soybeans September 7-13: C> Shelby= 2% on seeds in 12 sites in southeastern area. (R. Schall).

PURPLE STAIN (*Cercospora kikuchii*) - INDIANA - Survey on soybeans September 7-13 (R. Schall):

District> County	Prevalence (%)	Host stage
C> Madison	5	seed full size
C> Bartholomew	not seen	Pods yellowing
C> Shelby	not seen	harvest maturity
EC> Henry	not seen	harvest maturity
EC> Wayne	not seen	Pods yellowing
SE> Switzerland	not seen	harvest maturity
SE> Jefferson	not seen	seed full size
SE> Ripley	not seen	seed full size
SE> Clark	not seen	Pods yellowing
SE> Scott	not seen	seed full size
SE> Jennings	not seen	Pods yellowing
SC> Jackson	not seen	Pods yellowing

SOYBEAN BACTERIAL BLIGHT (*Pseudomonas glycinea*) - WISCONSIN - District> County= status on soybeans week ending September 12: SW> Sauk, Lafayette, SC> Green, Rock, Columbia, Dane, and SE> Walworth= disease in many fields, but seems less severe than in 1979. (O.L. Lovett).

BACTERIAL PUSTULE (*Xanthomonas phaseoli* f.sp. *sojensis*) - IOWA - Widespread in most counties from early July to harvest. Area> status on soybeans week ending September 19: SC, NW, and C> severity averaged 5-15% for susceptible varieties, trace to 3% in others detected in monitoring plots between flowering and full-seed stages. (D.J. Williams).

SOYBEAN CYST NEMATODE (*Heterodera glycines*) - KENTUCKY - New county records. District> County= collection data from Glycine max (soybean): Midwestern> Muhlenberg= cysts collected from soil and root sample at Central City, summer 1978, Simpson= at Franklin, summer 1979, both collectors not given, Ohio= from soil sample from old soybean field at Hartford, April 23, 1980, collected by J. Kavanough, and all 3 determined by R.A. Chapman, and Purchase> Lyon= at Eddyville, May 1, 1980, collected and determined by J. Herbek and L. Murdock. (P.E. Sloderbeck). INDIANA - New county record. District> County= collection data from Glycine max (soybean): NW> Benton= females collected on roots of plants near Earl Park, September 2, 1980, collected and determined by J.M. Ferris. (R.W. Meyer).

INSECTS

CORN EARWORM (*Heliothis zea*) - KANSAS - District> County= status on soybeans [host stage] week ending September 12: SW> Gray= eggs (most laid on hairs on pods) averaged 1-2 per 0.3 row m in late plants [pod fill] and no larvae found September 10, Meade= scattered eggs noted (K.O. Bell, Jr., M.L. Shuman); and SC> Kiowa= eggs averaged 1 per 0.3 row m in late plants along with small larvae September 12 (G.A. Salisbury).

NORTH CAROLINA - Corn earworm populations developed in scattered late-developing soybeans, and growers experienced loss from generation. Area> status on soybeans week ending September 19: Northeast Coastal Plain and Piedmont> larvae 4th generation, exceeded threshold level, continued to be detected in some late, drought-stressed beans, damage minor compared to third generation in August. Piedmont> decreased in most fields, fields with small developing pods should be scouted until numbers decrease to below 3 per sample (6 per 0.3 row m). Statewide> practically impossible for 5th generation to develop. (T. Hunt).

FALL ARMYWORM (*Spodoptera frugiperda*) - KANSAS - District> County= status on soybeans September 12: SC> Kiowa= newly hatched larvae averaged 10 per 0.3 row m in late field. (G.A. Salisbury).

BEET ARMYWORM (*Spodoptera exigua*) - TEXAS - Area> status on soybeans week ending September 19: South Plains and Panhandle> still problem in some parts. (J. A. Jackman).

PEANUTS

INSECTS

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - NORTH CAROLINA - Damage across northern Coastal Plain peanut-producing counties week ending September 19. Surveys indicated fields with 50-75% of pods and pegs damaged due to borers and drought, treatments disappointing due to poor moisture conditions. (T. Hunt).

COTTON

INSECTS

BOLLWORMS (*Heliothis* spp.) - TEXAS - Area> BOLLWORM (*Heliothis zea*) and TOBACCO BUDWORM (*Heliothis virescens*) status on cotton week ending September 19: High Plains and South Plains> egg laying continued, mortality heavy and growth slow due to cold weather and predators. (J.A. Jackman). ARKANSAS - *Heliothis* spp. infestations continued heavy in cotton fields week ending September 19. Egg and adult populations very heavy, eggs not hatching or young larvae drying up with growing. (G. Barnes).

BEET ARMYWORM (*Spodoptera exigua*) - TEXAS - Area> status on cotton week ending September 19: South Plains and Panhandle> still problem in some parts. (J.A. Jackman).

TOBACCO

DISEASES

TOBACCO WILT (*Fusarium oxysporum* f.sp. *nicotianae*) - MISSOURI - New State record. District> County= collection data from *Nicotiana tabacum* (tobacco): NW> Platte= from commercial field at Weston, August 26, 1980, collected and determined by A. Foudin. (A. Foudin).

POTATOES, TOMATOES, PEPPERS

DISEASES

SOYBEAN CYST NEMATODE (*Heterodera glycines*) - OHIO - New State record. District> County= collection data from *Lycopersicon esculentum* (tomato): WC> Miami= cysts and second stage larvae found in soil attached to roots on farm at Tipp City, July 10, 1980, by P. Kauffman and R. Hammond, and determined by W. Friedman. (R.W. Wadleigh).

BEANS AND PEAS

DISEASES

BEAN ANTHRACNOSE (*Colletotrichum lindemuthianum*) - CALIFORNIA - First record on commercial crops. District> County= collection data from *Vigna* sp. 'Coco de Prague' (bean): Southern California> Santa Barbara= on 6 plants on about 4.0 ha at Lompoc, August 25, 1980, collected by Bendixen et al., and determined by T. Tidwell. On September 10, 2 other collections made in 2 fields of 4.9 and 11 ha. (C.S. Papp).

INSECTS

CORN EARWORM (*Heliothis zea*) - ARKANSAS - Area> status week ending September 19: Statewide> heavy in okra, southern peas, and beans in gardens. (G. Barnes).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) - ARKANSAS - Area> status week ending September 19: S counties> damaged fall beans and southern peas in late crops. (G. Barnes).

DECIDUOUS FRUITS AND NUTS

DISEASES

DIPLODIA FRUIT ROT (*Diplodia natalensis*) - MISSOURI - New State record. District> County= collection data from *Prunus persica* (peach): SC> Wright= in commercial orchard at Mountain Grove, September 8, 1980, collected by R. Goodman, and determined by A. Foudin. (A. Foudin).

INSECTS

APPLE MAGGOT (*Rhagoletis pomonella*) - OREGON - New county records. County= collection data: Yamhill= 3 adults collected from trap placed in apple tree located along State Highway 99 West near Dundee, (date unknown), by D. Kimberling, and Lane= adults collected from 2 trap sites along McKenzie River, 1 along State Highway 126 about 2 km northeast of Leaburg, and the other near Leaburg Dam about 3 km to the northeast, collected September 4, 1980, by

D. Allison and R.L. Penrose. Marion= 1 apple maggot female trapped on dooryard apple tree at Silverton in early September by C. Connel, surveys indicated distribution widespread, larvae collected from ornamental *Crataegus* spp. (hawthorn) berries at Turner, Aumsville, and Jefferson. All 3 determined by R.L. Westcott. Linn= 2 larvae collected from ornamental hawthorn berries at Crawfordsville, October 22 by R. Penrose, later detected at Sweet Home. Jackson= 3 larvae collected from ornamental hawthorn berries on 2 adjacent residential properties at Phoenix, October 24 by R. Penrose, this find in center of 1 of major apple and pear producing areas. Last 2 counties determined by R.L. Penrose. Statewide> negative to date in commercial groves. Delimiting surveys planned to begin in early July 1981; trapping to be intensive in western one-third of State and in Hood River area. (R.L. Penrose).

SAN JOSE SCALE (*Quadraspidiotus perniciosus*) - FLORIDA - New county record. District> County= collection data from *Pyrus communis* (pear): C> Hernando= collected on bark of tree in nursery at Weeki Wachee, September 3, 1980, by R. Phillips and A. Bentley, and determined by A.B. Hamon. Tree 10 years old. (R. Phillips).

PLUM RUST MITE (*Aculus fockeui*) - OREGON - County= status on cherry trees week ending September 12: Clackamas= very heavy on leaves and branches of 1,000+ 1 to 3-year-old trees at Barlow, about 70% of trees infested; infested about 40% of another 1,000 trees at Canby. (R. Vial, J. Mellott).

SMALL FRUITS

INSECTS

A BRAMBLEBERRY LEAFHOPPER (*Macropsis fuscula*) - OREGON - New State and county records. County= collection data: Clackamas= adults heavy on wild *Rubus laciniatus* (evergreen blackberry), *Rubus ursinus* (California dewberry) and *Rubus parviflorus* (western thimbleberry) in Sandy area, August 4, 1980. Light at this site on *Rubus occidentalis* 'Munger' (black raspberry). Lane= from *Rubus procerus* (Himalaya berry) near Blue River, August 6, Benton= (host unknown) at Corvallis, August 7, all 3 collected and determined by P.W. Oman, and Marion= adults collected from *Rubus laciniatus* (evergreen blackberry) at Willamette Mission State Park, September 17. Collected and determined by R.L. Westcott. (P.W. Oman, R.L. Westcott).

ORNAMENTALS

INSECTS

A DIASPIDID SCALE (*Hemiberlesia diffinis*) - FLORIDA - New county record. District> County= collection data from *Persea borbonia* (redbay): NW> Escambia= adults moderately infested stems and bark of 6 plants along road near Santa Rosa Island, May 7, 1980, collected by E. Graham, R. Clark, and D. Reese, and determined by A.B. Hamon. (E. Graham et al.).

TEA SCALE (*Fiorinia theae*) - FLORIDA - New county and host records for State. District> County= collection data from *Ilex vomitoria* 'Nana' (yaupon) leaves: C> Marion= collected from hedge at restaurant at Silver Springs, May 29, 1980, by F. McHenry, and determined by A.B. Hamon. Plants established. (F. McHenry).

A DIASPIDID SCALE (*Abgrallaspis cyanophylli*) - FLORIDA - New county record. District> County= collection data from Solidago fistulosa (pinebarren golden-rod): S> De Soto= adults and immatures scattered on stems and leaves along roadside near Arcadia, August 13, 1980, collected by Z. Smith, and determined by A.B. Hamon. (Z. Smith).

A DIASPIDID SCALE (*Gymnaspis aechmeae*) - FLORIDA - New county record. District> County= collection data from Neoregelia sp. (a bromeliad): C> Sumter= adults moderately infested leaves of 10 of 100 plants in nursery at Bushnell, September 3, 1980, collected by R. Driggers, determined by P. Seslar, and confirmed by A.B. Hamon. Plants in nursery 1+ years. (R. Driggers).

A SOFT SCALE (*Pulvinaria acericola*) - FLORIDA - New county and host records for State. District> County= collection data from Nyssa sylvatica (black tupelo): NW> Escambia= adults on leaves of plant at park at Century, May 7, 1980, collected by D. Reese and R. Clark, and determined by A.B. Hamon. Plants established. (A.B. Hamon).

FOREST AND SHADE TREES

DISEASES

WESTERN GALL RUST (*Endocronartium harknessii*) - OHIO - New State record. District> County= collection data from Pinus sylvestris (Scotch pine): NE> Columbiana= galls, aecia, and aeciospores collected in nursery near Lisbon, May 6, 1980, by P. Kauffman and J.W. Hines, and determined by C.W. Ellett. (R.E. Hite).

PINEWOOD NEMATODE (*Bursaphelenchus lignicolus*) - KANSAS - New locality record. District> County= status on pines week ending September 19: SE> Cherokee= destroyed pines near Columbus and Weir. (T. Sim, IV). NORTH CAROLINA - New State record. District> County= collection data from Pinus taeda (loblolly pine): Central Piedmont> central Wake= various stages from twig and trunk among group of dead and dying pines at university at Raleigh, August 30, 1980, collected by K.R. Barker, and determined by H. Hirschmann. Northwest Wake= from trunk of mature tree having minor apparent stress from construction, having died August 1980, at Pickwick Village, September 9, 1980. All collections from dead trees with necrotic needles. (R.F. Sohn).

WISCONSIN - New county records for pinewood nematode. All collected in 1980. Infested trees ranged from 7 to 40 years old. (M. Conrad).

District> County	Host	Type of property	Nearest city	Collection date	Collector	Determiner
C> Adams	Scotch pine	Christmas tree plantation	Adams	Jul 8	J. Franklin	R. Norgren
SC> Dane	Norway pine	plantation	Pine Bluff	Aug 21	S. Ferguson	R. Norgren
NW> Douglas	Norway pine	plantation	Wascott	Aug 25	D. Hall	R. Norgren
SW> Grant	Austrian pine	plantation	Boscobel	Jul 10	T. Nicholls	A. Foudin
SW> Iowa	Scotch pine	roadside park	Arena	Aug 21	D. Hall	R. Norgren

District> County	Host	Type of property	Nearest city	Collection date	Collector	Determiner
SW> Richland	Norway pine	plantation	Lone Rock	Sep 9	D. Hall	R. Norgren
SW> Sauk	Norway pine	plantation	Spring Green	Jul 10	D. Hall	R. Norgren
WC> Jackson	Jack pine	plantation	Shamrock	Jun 26	T. Nicholls	A. Foudin
WC> Pepin	Austrian pine	plantation	Durand	May 30	T. Nicholls	A. Foudin
NC> Price	Austrian pine	plantation	Fifield	Jul 19	T. Nicholls	A. Foudin
SE> Walworth	Norway pine	plantation	Palmyra	Sep 4	D. Hall	R. Norgren
SE> Waukesha	Austrian pine	plantation	Eagle	Sep 4	D. Hall	R. Norgren
NE> Marinette	Norway pine	plantation	Dunbar	Sep 24	D. Hall	R. Norgren

INSECTS

BLACK PINELEAF SCALE (*Nuculaspis californica*) - FLORIDA - New county record. District> County= collection data from *Pinus taeda* (loblolly pine): S> Charlotte= adults on leaves along road (city not given), July 31, 1980, collected and determined by Z. Smith, and confirmed by A.B. Hamon. (Z. Smith).

A DIASPIDID SCALE (*Chionaspis heterophyllae*) - FLORIDA - New county record. District> County= collection data from *Pinus palustris* (longleaf pine): S> Charlotte= adults on leaves of trees along road near Cleveland, May 23, 1980, collected by Z. Smith, and determined by A.B. Hamon. (Z. Smith).

A SOFT SCALE (*Toumeyella virginiana*) - FLORIDA - New county and host records for State. District> County= collection data from *Pinus clausa* (sand pine): S> Palm Beach= nymphs and adults on bark of tree in vacant lot at Boca Raton, July 10, 1980, collected by C. Culbreth and J. Aubry, and determined by A.B. Hamon. (A.B. Hamon).

A WEEVIL (*Calirrhopalus bifasciatus*) - KENTUCKY - New State record. District> County= collection data from *Liriodendron tulipifera* (yellow-poplar): Blue-grass> Madison= at Richmond, July 15, 1980, collected by M.J. Park and J. Wilson, and determined by P.E. Sloderbeck. (P.E. Sloderbeck).

A TINGID BUG (*Corythucha pergandei*) - OKLAHOMA - New county record. District> County= collection data from *Betula* spp. (red birch): NE> Wagoner= all stages heavy at residence near Porter, September 14, 1980, collected by B.G. Hill, and determined by D.C. Arnold. (D.C. Arnold).

A DIASPIDID SCALE (*Diaspidiotus coniferarum*) - FLORIDA - New county records. District> County= collection data from *Juniperus virginiana* (eastern red-cedar): C> Volusia= adults moderately infested bark of tree near Astor, June 17, 1980, collected by C. Roberts and A. Bentley, determined by C.R. Roberts, and confirmed by A.B. Hamon (A.B. Hamon), and Lake= adults on stems and bark of tree along road near Leesburg, June 18, collected by A. Bentley and L. Chambliss, and determined by A.B. Hamon. Plants established (F.W. Mead).

A KATYDID (*Meconema thalassinum*) - RHODE ISLAND - New State record. County= collection data: Newport= collected from *Daucus carota* (carrot) in nursery at Middletown, August 14, 1980, by R.R. LaFrance, and determined by E.R. Hoebeke. Known hosts are oaks and other deciduous trees. (E.R. Hoebeke).

A TETRANYCHID MITE (*Tetranychus homorus*) - FLORIDA - New State record. District> County= collection data from *Fraxinus americana* (white ash): C> Marion= adults on leaves at Citra, May 24, 1980, collected by F. McHenry, and determined by H.A. Denmark. (F. McHenry).

A TENUIPALPID MITE (*Tenuipalpus celtidis*) - FLORIDA - New county record. District> County= collection data from *Celtis* sp. (a hackberry): S> St. Lucie= on leaves of tree at grove at Indrio, September 2, 1980, collected by E. Campbell, and determined by H.A. Denmark. (E. Campbell).

AN ERIOPHYID MITE (*Tegoprionus dentatus*) - OREGON - County= status on 3-year-old Norway maple tree week ending September 12: Multnomah= infested 100% in 8.1-ha planting in western area. (R. Vial et al.).

MAN AND ANIMALS

INSECTS

A MOSQUITO (*Anopheles barberi*) - OHIO - New county record. District> County= collection data: NE> Cuyahoga= collected with dry ice-baited light traps at Bedford and Garfield Heights, August 25, 1980, collected by C. Bosworth, and determined by R. Restifo. (R. Berry).

A MOSQUITO (*Culiseta silvestris minnesotae*) - OHIO - New county record. District> County= collection data: NE> Cuyahoga= collected with dry ice-baited light traps at Lyndhurst, August 25, 1980, by C. Bosworth, and determined by R. Restifo. (R. Berry).

A MOSQUITO (*Psorophora cyanescens*) - OHIO - New county record. District> County= collection data from light trap: SW> Greene= at Fairborn, August 13, 1980, collected by T. Luken, and determined by R. Restifo. (R.W. Wadleigh).

A MOSQUITO (*Psorophora columbiae*) - OHIO - New county record. District> County= collection data from light trap: NE> Portage= at Kent, August 18, 1980, collector unknown, determined by R. Restifo. (R.W. Wadleigh).

A MOSQUITO (*Psorophora ferox*) - OHIO - New county record. District> County= collection data: NE> Cuyahoga= collected with dry ice-baited light traps at North Olmsted, August 26, 1980, by C. Bosworth, and determined by R. Restifo. (R. Berry).

AN IXODID TICK (*Ixodes dentatus*) - OKLAHOMA - New State record. District> County= collection data from *Sylvilagus floridanus* (Eastern cottontail rabbit): SE> Le Flore= 1 larva, 3 nymphs, and 1 male adult collected 10 km southeast of Wister, May 4, 1979, by H.G. Koch, and determined by J. Keirans. (D.C. Arnold).

HOUSEHOLDS AND STRUCTURES

INSECTS

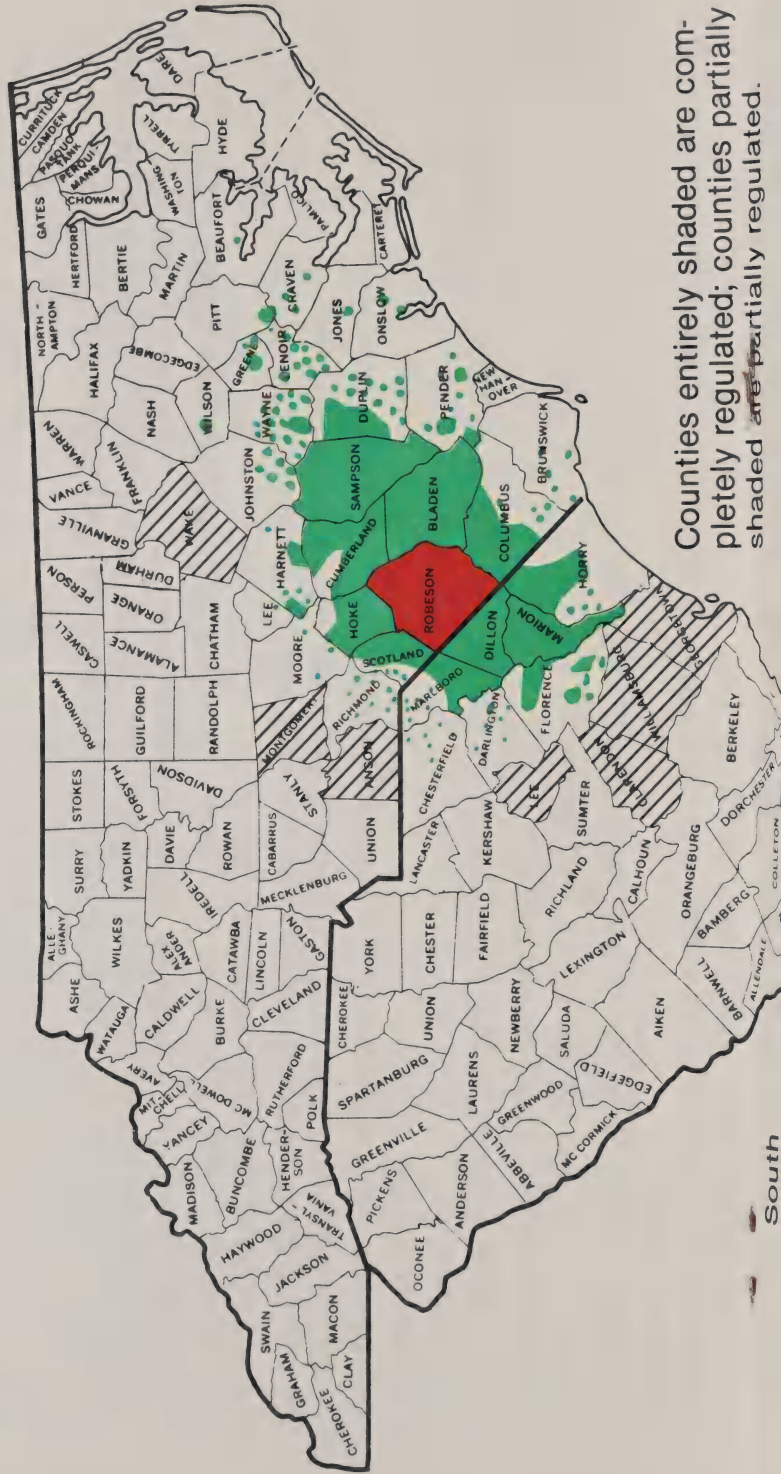
FORMOSAN SUBTERRANEAN TERMITE (*Coptotermes formosanus*) - FLORIDA - New State record. District> County= collection data: S> Broward= soldiers, alates, and

13. Pickling cucumbers, string beans, and field peas.
*Pickling cucumbers, string beans, and field peas are exempt** if washed free of soil with running water.*
14. Cabbage, except firm heads with loose outer leaves removed.
15. Leaf tobacco, except flue-cured leaf tobacco.
16. Ear corn, except shucked ear corn.
17. Used crates, boxes, burlap bags, cotton picking sacks, and other used farm products containers.
18. Used farm tools.
*Used farm tools are exempt** if cleaned free of soil.*
19. Used mechanized cultivating equipment and used harvesting equipment.
*Used mechanized cultivating equipment is exempt** if cleaned free of soil.*
20. Used mechanized soil-moving equipment.
*Used mechanized soil-moving equipment is exempt** if cleaned free of soil.*
21. Any other products, articles, or means of conveyance, of any character whatsoever, not covered by the above when it is determined by an inspector that they present a hazard of spread of witchweed and the person in possession thereof has been so notified.

* Information as to designated laboratories, facilities, gins, oil mills, and processing plants may be obtained from an inspector.

** Exempt if not exposed to infestation after cleaning or other prescribed handling.

North Carolina



Counties entirely shaded are completely regulated; counties partially shaded are partially regulated.

South



Restrictions are imposed on movement of regulated articles from a regulated area.

1. From red into or through green or white.
2. From green into or through white.
3. Green into green.
4. Within green.*

*If required by an authorized inspector.



Generally infested area —
State and Federal regulations
(Eradication treatments not in
progress or planned)



Suppressive area —
State and Federal regulations
(Suppressive treatments in
progress or planned)



Eradicated —
regulations removed

Consult your State and
Federal plant protection
inspector or your county
agent for assistance regard-
ing exact areas under regula-
tion and requirements for
moving regulated articles.
For detailed information see
7 CFR 301.80 for quarantine
and regulations.

See reverse side for list of regulated articles

The Following Regulated Articles Require a Certificate or Permit Year-Round Except as Indicated

1. Soil, compost, decomposed manure, humus, muck, and peat, separately or with other things; sand; and gravel.

*Soil samples shipped to approved laboratories do not require attachment of certificate or permit.**

2. Plants with roots.
3. Grass sod.
4. Plant crowns and roots for propagation.
5. True bulbs, corms, rhizomes, and tubers of ornamental plants.
6. Root crops, except those from which all soil has been removed.
7. Peanuts in shells and peanut shells, except boiled or roasted peanuts.
8. Small grains and soybeans.

*Small grains are exempt** if harvested in bulk or into new or treated containers, and if the grains and containers for the grains have not come in contact with the soil, or if they have been cleaned at a designated facility.**

Soybeans are exempt when determined by an inspector that the soybeans were grown, harvested, and handled in a manner to prevent contamination from witchweed seed.

9. Hay, straw, fodder, and plant litter of any kind.
10. Seed cotton and gin trash.
*Seed cotton is exempt if moving to a designated gin.**
11. Stumpwood.
12. Long green cucumbers, cantaloupes, peppers, squash, tomatoes, and watermelons, except those from which all soil has been removed.

Formosan subterranean termite workers collected in condominium at Hallandale (fraction of 1.6 km north of Broward and Dade County line), August 1, 1980, collected by P.G. Koehler, and determined by D.R. Smith and L.A. Hetrick. Roof of this condominium so damaged 3 years ago that it was replaced, this year termites infested kitchen cabinets. (P.G. Koehler).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A LADY BEETLE (*Coccinella septempunctata septempunctata*) - RHODE ISLAND - New State record. County= collection data from Zea mays (corn): Washington= 1 specimen collected on farm at Richmond, August 25, 1980, by R.B. LaFrance, determined by E.R. Hoebeke. (E.R. Hoebeke).

AN ICHNEUMONID WASP (*Bathyplectes anurus*) - KENTUCKY - Reared from 8 of 17 samples of *Hypera postica* (alfalfa weevil) larvae collected April 23 to May 13, 1980. Rate of parasitism averaged 4.8% (range 1.7-13.5%) in 8 positive samples. (P.E. Sloderbeck, J.C. Parr).

District> County	Adult <i>Hypera postica</i> emerged from sample	In sample (%)
Bluegrass> Anderson	488	1.4
Bluegrass> Lincoln	122	0
Bluegrass> Madison	97	0
Bluegrass> Mason	487	0
Bluegrass> Scott	1,620	2.2
Bluegrass> Shelby	92	7.6
Bluegrass> Woodford	216	0
Bluegrass> Fayette	416	11.1
Bluegrass> Harrison	270	0.7
E> Bell	121	0
E> Knox	100	0
E> Laurel	33	0
N> Bracken	423	1.4
N> Owen	159	1.2
N> Pendleton	266	13.5
Midwestern> Logan	1,167	0
Midwestern> Simpson	1,329	0

Kentucky - New county records. District> County= *Bathyplectes anurus* collection data: N> Bracken at Brooksville, and Pendleton at Falmouth= reared from *Hypera postica* (alfalfa weevil) collected from alfalfa May 8, 1980, both collected by P.E. Sloderbeck, and determined by J.C. Parr. (P.E. Sloderbeck, J.C. Parr).

AN ICHNEUMONID WASP (*Bathyplectes curculionis*) - KENTUCKY - Reared from 16 of 17 samples of *Hypera postica* (alfalfa weevil) larvae collected April 23 to May 1. Rate of parasitism averaged 3.3% (range 0.4-8.0%) in 16 positive samples similar to 1979 when rate of parasitism averaged 2.9%, below 1978 average of 13.2%. (P.E. Sloderbeck, J.C. Parr).

District> County	Adult <u>Hypera postica</u> emerged from sample	In sample (%)
Bluegrass> Anderson	488	3.3
Bluegrass> Lincoln	122	1.6
Bluegrass> Madison	97	6.0
Bluegrass> Mason	487	1.2
Bluegrass> Scott	1,620	1.6
Bluegrass> Shelby	92	0
Bluegrass> Woodford	216	0.4
Bluegrass> Fayette	416	2.1
Bluegrass> Harrison	270	4.8
Bluegrass> Owen	159	0.6
Bluegrass> Pendleton	266	7.5
E> Bell	121	6.6
E> Knox	100	4.0
E> Laurel	33	3.0
N> Bracken	423	8.0
Midwestern> Logan	1,167	0.4
Midwestern> Simpson	1,329	1.1

Kentucky - New county records. District> County= Bathyplectes curculionis collection data: E> Bell, Knox, and Laurel= reared from Hypera postica (alfalfa weevil) larvae collected from sweetclover on May 13, 1980, and Bluegrass> Madison= collected from alfalfa on April 28, 1980. All 4 collected by P.E. Sloderbeck, and determined by J.C. Parr. (P.E. Sloderbeck)

AN ICHNEUMONID WASP (Eriborus terebrans) - MINNESOTA - District> County= parasites recovered from Ostrinia nubilalis (European corn borer) April 8-10: C> Stearns= at Wendel and Avon Townships and WC> Otter Tail= at Buse Township. (F.C. Holte, D.D. Sreenivasam).

A MYMARID WASP (Patasson luna) - WISCONSIN - New State and county records. District> County= collection data from Hypera postica (alfalfa weevil) eggs: SC> Columbia= at Arlington, May 19, 1969, collected by J. Litsinger, and determined by B.D. Burks (M.E. Schauff), Green= at Monroe, May 13, 1980, and Dane= at Blue Mounds, May 23. Both collected by D. Hogg, and determined by M.E. Schauff. (O L. Lovett).

A STREPSIPTERA (Elenchus koebeli) - GEORGIA - New State record. District> County= collection data from blacklight trap: SE> Chatham= 14 males collected at Savannah during July through October 1971. Collected and determined by V. Johnson and W.P. Morrison. (P.E. Sloderbeck).

A STREPSIPTERA (Halictophagus acutus) - GEORGIA - New State record. District> County= collection data from blacklight trap: SE> Chatham= 1 male collected at Savannah, September 28, 1971. Collected and determined by V. Johnson and W.P. Morrison. (P.E. Sloderbeck).

FEDERAL AND STATE PROGRAMS

DISEASES

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) - KANSAS - No losses in 1980, few infections seen in north-central and northeastern areas in June, very light throughout Great Plains due to apparent lack of inoculum. (T. Sim, IV; W.G. Willis).

INSECTS

GRASSHOPPERS - OREGON - County= Melanoplus sanguinipes adults per 0.8 sq m on eastern rangelands August 25 to September 5: Wallowa= 3-5 with occasional counts up to 7-8 in Zumwalt, Finley Butte, Paradise, Troy, and Wildcat Ridge areas; heavier counts generally restricted to rangeland areas not treated in 1979; MORMON CRICKET (Anabrus simplex) counts light throughout county, heaviest about 10 km east of Enterprise (P. Johnson). Malheur= light, 1-2 from Huntington to Ironside and south to Juntura August 25-29; 2-3 in southern area at Arock and generally 8 or less north of Jordan Valley, latter area heavier earlier but damage to irrigated lands now light, parasitism heavy by probably Neorhynchocephalus sackenii (a nemestrinid fly) in latter area (P. Johnson, D. Lightfoot), Grant= 5-10 in Dayville, South Fork, John Day, Mount Vernon, Logan Valley, and Bear Valley areas; 15, economic at Prairie City, Baker= economic, 25-30 on about 4,000 ha of rangeland south of Bridgeport (P. Johnson), Harney= economic, mostly Melanoplus sanguinipes, 8 from Drewsey to Crane, about 4 around Riley, averaged about 10 in Sagehen Hills area (between Riley and Burns), adults heavy in hay ground south of Sagehen Summit, damage to crops not too evident; populations decreased from earlier levels (D. Lightfoot), and Crook= Camnula pellucida locally heavy, 50+ at Big Summit Prairie (P. Johnson). Mostly Melanoplus sanguinipes adults per 0.8 sq m week ending September 19: Lake= 6-10 in Gooselake Basin, Lakeview area. (D. Lightfoot).

KANSAS - District> County= status of mostly Melanoplus differentialis and Melanoplus bivittatus (Melanoplus sanguinipes usually scarce) on wheat week ending September 12: SW> Hamilton= 6 and 9 m of margin lost from 2 fields near Syracuse, 1 field bordering large weedy waste area and other field border weedy pasture; no significant loss in 21 fields. WC> Greeley= no loss in 26 fields, Wallace= no loss in 9 fields, and NW> Sherman= no loss in 4 fields; most fields border wheat stubble. (K.O. Bell, Jr.).

GYPSY MOTH (Lymantria dispar) - WASHINGTON - First find. District> County= collection data from trap: W> Clark= at Vancouver, August 18, 1980, by B. DeGraves, and determined by B. DeGraves and J.D. Ott. (B. DeGraves). NORTH CAROLINA - First finds. District> County= collection data from trap: Central Piedmont> Wake= 1 specimen collected at Raleigh, and Northern Piedmont> Durham= 2 specimens collected at Durham. Both collected August 25, 1980, by K. Witt, and determined by L. Roberts. (R.F. Bollinger). WEST VIRGINIA - First find. District> County= collection data from pheromone trap: E> Pocahontas= adult male caught near Mountain Mission, September 12, 1980 (collector unknown), determined by A.R. Miller. (A.R. Miller). OHIO - First find. District> County= collection data from trap: EC> Jefferson= 1 specimen collected at Island Creek Township, August 27, 1980, by B. Schultz, and determined by D.C. Ferguson. (B. Schultz).

JAPANESE BEETLE (Popillia japonica) - KENTUCKY - New county record. District> County= collection data from wild Vitis sp. (grape) vine: N> Owen= adult collected at Long Ridge, August 4, 1980; collected and determined by P.E. Sloderbeck. (P.E. Sloderbeck).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - New county record. District> County= collection data: Central Coast> Alameda= 1 female trapped at Fremont, October 1, 1980. Additional 3 females and 2 males trapped to October 22. Two larvae collected there from Prunus persica (peach) from 1 property on November 6, 1980, by Hewitt (initials unknown), and determined by K. Corwin. Total of 7 properties involved. (K. Corwin).

Central Coast> Santa Clara= total of 347.1 million sterile Mediterranean fruit flies released aerially and 490.85 million ground (static and roving) released. About 100 million sterile flies released per week and continuing at this rate at least until the end of 1980. Sterile fly release projected to increase to about 200 million per week beginning 1981. Total of 1,105 Jackson traps and 1,553 Nadel traps used in project area, and 100 properties with infested fruit and 176 wild (nonsterile) flies detected. All collections made in contiguous cities, but 1 unmated female taken at Morgan Hill, several kilometers southeast of known infested area in San Jose and Santa Clara.

Alameda and Santa Clara= area (9 square city blocks) surrounding infested-fruit properties treated with soil drench under drip line of bearing host trees maximum of 3 times at 14-day intervals. Also, full cover foliage spray applied to honey-dew producing plants when ratio of sterile to nonsterile population drops below 100.

Southern California> Los Angeles= situation under control with eradication target date of December 1980. Total of 64.46 million sterile flies released aerially and 101.4 million ground released, treatments stopped. Detection surveys continuing. (F.M. Philips).

PINK BOLLWORM (*Pectinophora gossypiella*) - ARIZONA - District> County= percent larval infestation week ending September 18: SW> Yuma= 2-13%, C> Maricopa= 1-4%, and Pinal= 2%; counts per pheromone trap per day: C> Maricopa= 0-84, Pinal= 10-16, SW> Yuma= 4-12, and SE> Pima= 21-43. (E. Bilbrey et al.); week ending September 25: SW> Yuma= 0-15%, C> Maricopa= 1%, Pinal= 1.25%, and SE> Pima= 8%; counts per pheromone trap per day: C> Maricopa= 1-14, Pinal= 2-16, SW> Yuma= 2-118, and SE> Pima= 14-34. (A. DeLellis et al.). TEXAS - District> County= counts on cotton per trap per day, week ending September 5: Trans-Pecos> El Paso= 2, Reeves= 3, and Pecos= 4-7. (C.W. Neeb).

HAWAII PEST REPORT

New island records- A WHITEFLY (*Orchamoplatus mammaeferus*) - Island= collection data from *Codiaeum variegatum* (garden croton): Hawaii= moderate in yard at Honoli Pali, Hilo, September 23, 1980, collected by S. Matayoshi, and determined by S.Y. Higa. (S. Matayoshi, L.M. Nakahara).

ORANGE SPINY WHITEFLY (*Aleurocanthus spiniferus*) - Island= collection data: Kauai= heavy on citrus foliage in garden at Kapaa, September 24, 1980, collected by W. Souza, and determined by S.Y. Higa; and Lanai= severe on citrus tree at Lanai City, September 30, collected by L.M. Nakahara, (determiner not stated). No infestations on other citrus trees examined in city. *Prospaltella smithi* (a eulophid wasp) appears to be predominant parasite in controlling infestations on roses. Complex of parasites controls infestations on citrus. (D.T. Sugawa, L.M. Nakahara).

New locality record - WESTERN YELLOWJACKET (*Vespula pensylvanica*) - Island= status: Hawaii= in August 1980, 2 nests destroyed in upper Hilo (above Kaumana) at 335-m and 427-m elevation. Nest at Pahala 442-m elevation and 4 small nests at Paauilo 701-853-m elevation treated and excavated. Increased activity also reported in Hawaii Volcanoes National Park. One underground and 3 small nests formed above ground, 1 up to 6.1 m off ground, recently destroyed. (G.H. Komatsu, E.R. Yoshioka).

DETECTION

NEW STATE RECORDS

DISEASES

DIPLODIA FRUIT ROT (Diplodia natalensis) - MISSOURI - Wright County. (p. 682).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - NORTH CAROLINA - Wake County. (p. 684).

SOYBEAN CYST NEMATODE (Heterodera glycines) - OHIO - Miami County. (p. 682).

TOBACCO WILT (Fusarium oxysporum f.sp. nicotianae) - MISSOURI - Platte County. (p. 682).

WESTERN GALL RUST (Endocronartium harknessii) - OHIO - Columbiana County. (p. 684).

WHITE LINE MOSAIC VIRUS - NEW HAMPSHIRE - Belknap County. (p. 671).

INSECTS

A BRAMBLEBERRY LEAFHOPPER (Macropsis fuscula) - OREGON - Clackamas County. (p. 683).

A CYDNID BUG (Aethus nigritus) - CONNECTICUT - County= collection data from forage: New London= 1 male adult collected on farm at Waterford, August 22, 1979, by P.J. Brophy, determined by E.R. Hoebeke, and confirmed by R.C. Froeschner. (E.R. Hoebeke).

A CERCOPID BUG (Lepyronia coleoptrata) - PENNSYLVANIA - District> County= collection data: NE> Wayne= 2 adult males collected from mixed hay on farm at Honesdale, July 31, 1979, by J. Sporer; NC> Bradford= 2 adult females collected from oats and hay on farm in Windham Township, August 17, by H.G. Gates; and EC> Monroe= 1 adult male collected from corn on farm at Kresgeville, August 17, by J. Sporer. All determined by E.R. Hoebeke. (E.R. Hoebeke).

FORMOSAN SUBTERRANEAN TERMITE (Coptotermes formosanus) - FLORIDA - Broward County. (p. 686-687).

A KATYDID (Meconema thalassinum) - RHODE ISLAND - Newport County. (p. 686).

A LADY BEETLE (Coccinella septempunctata septempunctata) - RHODE ISLAND - Washington County. (p. 687).

A MYMARID WASP (Patasson luna) - WISCONSIN - Columbia County. (p. 688).

A STREPSIPTERA (Elenchus koebeli) - GEORGIA - Chatham County. (p. 688).

A STREPSIPTERA (Halictophagus acutus) - GEORGIA - Chatham County. (p. 688).

A TETRANYCHID MITE (Tetranychus homorus) - FLORIDA - Marion County. (p. 686).

A WEEVIL (Calirrhopalus bifasciatus) - KENTUCKY - Madison County. (p. 685).

AN IXODID TICK (Ixodes dentatus) - OKLAHOMA - Le Flore County. (p. 686).

NEW COUNTY AND ISLAND RECORDS

DISEASES

HEAD SMUT (Sphacelotheca reiliana) - MINNESOTA - Todd, Stearns, Otter Tail. (p. 674).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - WISCONSIN - See pages 684-685.

SOYBEAN CYST NEMATODE (Heterodera glycines) - KENTUCKY - Muhlenberg, Simpson, Ohio, and Lyon; INDIANA - Benton. (p. 680).

WHITE LINE MOSAIC VIRUS - NEW HAMPSHIRE - Hillsborough. (p. 671).

INSECTS

APPLE MAGGOT (Rhagoletis pomonella) - OREGON - Yamhill, Lane, Marion, Linn, and Jackson. (p. 682-683).

BLACK PINELEAF SCALE (Nuculaspis californica) - FLORIDA - Charlotte. (p. 685).

A BRAMBLEBERRY LEAFHOPPER (Macropsis fuscula) - OREGON - Lane and Marion. (p. 683).

A DIASPIDID SCALE (Abgrallaspis cyanophylli) - FLORIDA - De Soto. (p. 684).

A DIASPIDID SCALE (Chionaspis heterophyllae) - FLORIDA - Charlotte. (p. 685).

A DIASPIDID SCALE (Diaspidiotus coniferarum) - FLORIDA - Volusia and Lake. (p. 685).

A DIASPIDID SCALE (Gymnaspis aechmeae) - FLORIDA - Sumter. (p. 684).

A DIASPIDID SCALE (Hemiberlesia diffinis) - FLORIDA - Escambia. (p. 683).

A DIASPIDID SCALE (Odonaspis ruthae) - FLORIDA - Levy. (p. 676).

EUROPEAN HORNET (Vespa crabro germana) - KENTUCKY - District> County= collection data: Purchase> Trigg= from hollow stump at Cadiz, September 12, 1980, by J.P. Fourqurean, and determined by R.A. Scheibner. (P.E. Sloderbeck).

AN ICHNEUMONID WASP (Bathyplectes anurus) - KENTUCKY - Bracken and Pendleton. (p. 687).

AN ICHNEUMONID WASP (Bathyplectes curculionis) - KENTUCKY - Bell, Knox, Laurel, and Madison. (p. 688).

JAPANESE BEETLE (Popillia japonica) - KENTUCKY - Owen. (p. 689).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - Alameda. (p. 689).

A MOSQUITO (Anopheles barberi) - OHIO - Cuyahoga. (p. 686).

A MOSQUITO (Culiseta silvestris minnesotae) - OHIO - Cuyahoga. (p. 686).

A MOSQUITO (Psorophora columbiae) - OHIO - Portage. (p. 686).

A MOSQUITO (Psorophora cyanescens) - OHIO - Greene. (p. 686).

A MOSQUITO (Psorophora ferox) - OHIO - Cuyahoga. (p. 686).

A MYMARID WASP (Patasson luna) - WISCONSIN - Green and Dane. (p. 688).

ORANGE SPINY WHITEFLY (Aleurocanthus spiniferus) - HAWAII - Kauai and Lanai. (p. 690).

SAN JOSE SCALE (Quadraspidiotus perniciosus) - FLORIDA - Hernando. (p. 683).

A SOFT SCALE (Pulvinaria acericola) - FLORIDA - Escambia. (p. 684).

A SOFT SCALE (Toumeyella virginiana) - FLORIDA - Palm Beach. (p. 685).

SURINAM COCKROACH (Pycnoscelus surinamensis) - PENNSYLVANIA - District> County= collection data: SE> Philadelphia= living in soil of bird exhibits at zoo at Philadelphia, September 6, 1980. Collected and determined by T.A. Parker, and confirmed by S.A. Green. Species has no known males in New World and produces female nymphs parthenogenetically. Active colonies still present in number of cages. Somewhere in past, female(s) got into exhibits from shipment into zoo. (T.A. Parker).

TEA SCALE (Fiorinia theae) - FLORIDA - Marion. (p. 683).

A TENUIPALPID MITE (Tenuipalpus celtidis) - FLORIDA - St. Lucie. (p. 686).

A TINGID BUG (Corythucha pergandei) - OKLAHOMA - Wagoner. (p. 685).

WARDROBE BEETLE (Attagenus fasciatus) - CALIFORNIA - District> County= collection data from frogtrap: San Joaquin Valley> Kern= adult collected at Bakersfield, August 22, 1980, by D. Poore and A. Gilbert, and determined by T. Seeno. (C.S. Papp).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - UTAH - Uintah; KENTUCKY; and OHIO - See pages 672-673.

A WHITEFLY (Orchamoplatus mammaeferus) - HAWAII - Hawaii. (p. 690).

OTHER NEW RECORDS

DISEASES

BEAN ANTHRACNOSE (Colletotrichum lindemuthianum) - CALIFORNIA - First record on commercial crops. (p. 682).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - KANSAS - New locality record. (p. 684).

INSECTS

GYPSY MOTH (Lymantria dispar) - NORTH CAROLINA, OHIO, WASHINGTON, and WEST VIRGINIA - First finds. (p. 689).

WESTERN YELLOWJACKET (Vespula pensylvanica) - HAWAII - New locality record. (p. 690).

CORRECTIONS

CPPR 5(33):629 - HALO BLIGHT (*Pseudomonas cononafaciens*) should read HALO BLIGHT (*Pseudomonas coronafaciens*).

CPPR 5(34):635 - CORN ROOTWORMS (*Diabrotica* spp.) - Make change to chart on page 635 as indicated.

District>	<i>Diabrotica</i>	<i>Diabrotica</i>	<i>Diabrotica</i>	Host	Lodged
County	<i>longicornis</i>	<i>undecimpunctata</i>	<i>virgifera</i>	stage	plants (%)
		<u>howardi</u>			

CPPR 5(34):637 - PHYTOPHTHORA ROOT ROT (*Phytophthora megasperma* f.sp. *sojae*) - Change to PHYTOPHTHORA ROT (*Phytophthora megasperma* f.sp. *sojae*).

*27-694

There were 11 new United States records reported in the "Cooperative Plant Pest Report" through September 1980. These records included 9 insects, 1 mite, and 1 disease. Three pests were reported for the first time on the North American continent, 1 each in California, Massachusetts, and New York. None of the species reported in Hawaii is known from the continental United States. There were 91 new State distribution records: 29 diseases, and 62 insects and other arthropods.

NEW UNITED STATES RECORDS

State	County or Island	Probable Origin	Collected on	CpPR Page	Economic Importance
HI	Oahu	Palearctic, Japan, Philippines	<u>Chrysopa</u> sp. probably comanche	646	Nonbeneficial parasite
MA	Plymouth	Algeria, Asia, Morocco, Europe	<u>Sorghum</u> <u>sudanense</u>	374	Probably economic
FL	Volusia	Honduras	<u>Rumohra</u> <u>adiantiformis</u>	73	Probably noneconomic
CT	Windham	Canada, Europe	<u>Phaseolus</u> <u>vulgaris</u>	547	Probably economic

Brachycyrtus nawai (Ashmead)
an ichneumonid wasp 1/
Det. P.M. Marsh

Chaetocnema concinna (Marsham)
a chrysomelid beetle 1/
Det. E.R. Hoebeke
conf. S.L. Shute

Cylindroccladium heptaseptatum
Sober, Alfieri, & Knauss
a fungus
Det. S.A. Alfieri, Jr.

Eupteryx atropunctata (Goeze)
a leafhopper
Det. E.R. Hoebeke
conf. J.P. Kramer

State	County or Island	Probable Origin	Collected on	CPPR Page	Economic Importance
HI	Hawaii	Australia, New Zealand	host not given	646	Probably economic
NY	Nassau	Europe	unknown host	628	Probably economic
HI	Hawaii	Dutch Guiana, Surinam	<u>Nieffenbachia</u>	17	Probably economic
CA	Los Angeles	Asia	<u>Juniperus sabina</u> cv. <u>tamariscifolia</u>	184	Economic
HI	Oahu	Australia, Indonesia, New Guinea, Sri Lanka, Thailand	Botanical gardens	646	Noneconomic
FL	Martin	Argentina, Brazil, Denmark, Mexico	<u>Citrus sinensis</u>	11	Probably economic

Hydrellia tritici Coquillett
a ephydrid fly 1/
 Det. D.E. Hardy
 conf. W. Mathis

Psallus variabilis (Fallen)
a mirid bug 1/
 Det. E.R. Hoebeke
 conf. T.J. Henry

Rhizococcus caladii Green
a mealybug 2/
 Det. J.W. Beardsley
 conf. D. Williams

Stenolechia bathrodyas Meyrick
a gelechiid moth 1/
 Det. T.D. Eichlin

Telostylus lineolatus
(Wiedemann)
a eriid fly 1/
 Det. D.E. Hardy

Tetranychus mexicanus (McGregor)
a tetranychid mite
 Det. H.A. Denmark
 conf. E.W. Baker

<u>Tetrastichus coccinellae</u> <u>Kurdjumov</u> a eulophid wasp 1/ Det. J.W. Beardsley Conf. C. Yoshimoto	<u>State</u>	<u>County or Island</u>	<u>Probable Origin</u>	<u>Collected on</u>	<u>CPPR Page</u>	<u>Economic Importance</u>
	HI	Oahu	Palearctic, Egypt, Sri Lanka,	Coccinella <u>sempunctata</u> <u>sempunctata</u>	17	Nonbeneficial parasite

1/ First report for Western Hemisphere.
2/ Not known to occur in continental United States.

NEW STATE RECORDS - 1980

<u>Species</u>	<u>State</u>	<u>County or Island</u>	<u>Collected on</u>	<u>Determiner</u>	<u>CPPR Page</u>
<u>Diseases</u>					
American wheat striate mosaic virus	NE	Franklin	<u>Zea mays</u>	L. Lane	593
Bursaphelenchus <u>Tignicolus</u> pinewood nematode	CA	Siskiyou	<u>Pinus</u> <u>ponderosa</u>	A. Weiner, R. Hackney	267
	FL	Alachua	<u>Pinus</u> <u>elliottii</u>	R.P. Esser, W. Friedman	49
	IN	Harrison	<u>Pinus</u> spp., <u>Pinus sylvestris</u>	A. Foudin	235
	KY	Hardin	<u>Pinus</u> <u>sylvestris</u>	R.A. Chapman, W. Friedman	91
	MN	Sherburne	<u>Pinus nigra</u>	A. Foudin	491
	MO	Randolph	<u>Pinus</u> <u>sylvestris</u>	A. Foudin	235
	NC	Wake	<u>Pinus taeda</u>	H. Hirschman	684
	OH	Hamilton	<u>Pinus resinosa</u>	R.M. Ridel, A.M. Golden	235
	PA	Allegheny	<u>Pinus cembra</u>	J.R. Bloom, W. Friedman	74
	SC	Oconee	<u>Pinus</u> <u>virginiana</u>	A.M. Golden, S.A. Lewis	74
	TN	Shelby	<u>Pinus strobus</u>	R.E. Harrison	50
	VT	Chittenden	<u>Pinus resinosa</u>	A. Foudin	383
	WV	Kanawha	<u>Pinus</u> <u>sylvestris</u>	W. Friedman	491
	WI	Pepin	<u>Pinus nigra</u>	A. Foudin	440
<u>Cephalosporium</u> <u>gramineum</u> cephalosporium stripe	OK	Grant	<u>Triticum</u> <u>aestivum</u>	K.E. Conway	636
<u>Diplodia natalensis</u> <u>diplodia fruit rot</u>	MO	Wright	<u>Prunus persica</u>	A. Foudin	682
<u>Endocronartium</u> <u>harknessii</u> western gall rust	OH	Columbiana	<u>Pinus</u> <u>sylvestris</u>	C.W. Ellett	684

<u>Species</u>	<u>State</u>	<u>County or Island</u>	<u>Collected on</u>	<u>Determiner</u>	<u>CPPR Page</u>
<u>Entomophthora</u> <u>phytonomi</u> an insect fungus	IL	Washington	<u>Hypera postica</u>	J.V. Maddox	237
	VA	Rockbridge	<u>Hypera postica</u>	L.M. Los	608
<u>Fusarium oxysporum</u> <u>f.sp. nicotianae</u> tobacco wilt	MO	Platte	<u>Nicotiana</u> <u>tabacum</u>	A. Foudin	682
<u>Heterodera glycines</u> soybean cyst nematode	OH	Miami	<u>Lycopersicon</u> <u>esculentum</u>	W. Friedman	682
<u>Pseudocercospora</u> <u>herpotrichoides</u> eyespot foot rot	KS	Lincoln	<u>Triticum</u> <u>aestivum</u>	W.G. Willis: R.J. Cook	621
<u>Puccinia striiformis</u> stripe rust	IL	Ogle	<u>Triticum</u> <u>aestivum</u>	E.G. Jordan	485
<u>Pyrenophora trichostoma</u> tan spot	WI	Lincoln	<u>Triticum</u> <u>aestivum</u>	C. Grau	4
<u>Sphacelotheca reiliana</u> head smut	MN	Wadena	<u>Zea mays</u>	E. Stromberg; H. Johnson, T. Komerdahl	593
<u>Verticillium albo-atrum</u> <u>verticillium wilt</u>	WI	Dane	<u>Medicago</u> <u>sativa</u>	C. Grau, P. Ellwich	637
White line mosaic virus	NH	Belknap	<u>Zea mays</u>	A. Gotlieb	671
	WI	Sheboygan	<u>Zea mays</u>	G.A. Gard	653
<u>Insects and other Arthropods</u>					
<u>Aethus nigratus</u> a cydnid bug	CT	New London	forage	P.J. Brophy	691
<u>Ampelogypter</u> <u>sesostris</u> grape cane gallmaker	TN	De Kalb	<u>Vitis</u> <u>Tabrusca</u>	D.R. Whitehead	626
<u>Anoecia cornicola</u> an aphid	ID	Franklin	<u>Cornus sericea</u>	A.G. Robinson	222
<u>Asphondylia</u> <u>helianthiglobulus</u> a cecidomyiid midge	OK	Le Flore	<u>Helianthus</u> <u>divaricatus</u>	R.J. Gagne	11
<u>Baris lepidii</u> imported crucifer weevil	OH	Medina	unknown	D.R. Whitehead	76
<u>Bemisia berbericola</u> a whitefly	FL	Martin	<u>Myrica</u> <u>cerifera</u>	A.B. Hamon	627
<u>Brachycolus asparagi</u> an aphid	WA	Benton	<u>Asparagus</u> <u>officinalis</u>	M.B. Stoetzel	11

<u>Species</u>	<u>State</u>	<u>County or Island</u>	<u>Collected on</u>	<u>Determiner</u>	<u>CPPR Page</u>
<u>Brachydeutera</u> <u>argentata</u> an ephydrid fly	HI	Kahoolawe	not given	D.E. Hardy	646
<u>Calirrhopalus</u> <u>bifasciatus</u> a weevil	KY	Madison	<u>Liriodendron</u> <u>tulipifera</u>	P.E. Sloderbeck	685
<u>Cecidomyia</u> <u>resinicola</u> a cecidomyiid midge	OK	McCurtain	<u>Pinus echinata</u>	R.J. Gagne	13
<u>Cerococcus kalmiae</u> a pit scale	FL	St. Lucie	<u>Myrica cerifera</u>	A.B. Hamon	642
<u>Coccinella</u> <u>septempunctata</u> <u>septempunctata</u> a lady beetle	RI	Washington	<u>Zea mays</u>	E.R. Hoebeke	69
<u>Conotrachelus</u> <u>pecanae</u> a weevil	OK	Lincoln	<u>Carya</u> <u>illinoensis</u>	D.R. Whitehead	9
<u>Coptotermes</u> <u>formosanus</u> Formosan subterranean termite	FL	Broward	kitchen cabinets	D.R. Smith, L.A. Hetrick	686 687
<u>Dactynotus</u> <u>helianthicola</u> an aphid	OK	Lincoln	<u>Helianthus</u> <u>tuberosus</u>	M.B. Stoetzel	1
<u>Deraeocoris ruber</u> a mirid bug	NJ	Essex	garden	E.R. Hoebeke	58
<u>Elenchus koebeli</u> a strepsiptera	GA	Chatham	blacklight trap	V. Johnson, W.P. Morrison	68
	KY	Larue	probably <u>Delphacodes</u> spp.	V. Johnson, W.P. Morrison	64
<u>Eriotremex formosanus</u> a siricid wasp	SC	Charleston	not given	J.F. Bollinger, D.R. Smith	62
<u>Frankliniella</u> <u>occidentalis</u> western flower thrips	SC	Barnwell	<u>Gossypium</u> <u>hirsutum</u>	S. Nakahara	64
<u>Halictophagus acutus</u> a strepsiptera	GA	Chatham	blacklight trap	V. Johnson, W.P. Morrison	68

<u>Species</u>	<u>State</u>	<u>County or Island</u>	<u>Collected on</u>	<u>Determiner</u>	<u>CPPR Page</u>
<u>Halictophagus acutus</u> <u>a strepsiptera</u>	KY	Fayette	<u>Draecu-</u> <u>Tacephala</u> <u>spp.</u>	V. Johnson, W.P. Morrison	64
<u>Harrisina americana</u> <u>grapeleaf skeletonizer</u>	KS	Douglas	<u>Vitis</u> sp.	D.C. Ferguson	1
<u>Hydroecia immanis</u> <u>a noctuid moth</u>	OH	Champaign	blacklight trap	E. Metzler	39
<u>Hydroecia micacea</u> <u>potato stem borer</u>	MA	Hampshire	<u>Zea mays</u>	A. Muka	61
	OH	Wayne	blacklight	D.C. Ferguson	40
<u>Ixodes dentatus</u> <u>an ixodid tick</u>	OK	Le Flore	<u>Sylvilagus</u> <u>floridanus</u>	J. Keirans	686
<u>Ixodes woodi</u> <u>an ixodid tick</u>	OK	Le Flore	<u>Neotoma</u> <u>floridana</u>	J. Keirans	23
<u>Lepyronia</u> <u>coleoptrata</u> <u>a cercopid</u>	PA	Wayne	mixed hay	E.R. Hoebeke	691
<u>Lophyroplectus</u> <u>oblongopunctatus</u> <u>an ichneumonid wasp</u>	WI	Walworth	<u>Neodiprion</u> <u>sertifer</u>	M. Kraemer	328
<u>Macropsis fuscula</u> <u>a brambleberry</u> <u>leafhopper</u>	OR	Clackamas	<u>Rubus</u> <u>laciniatus,</u> <u>Rubus ursinus,</u> <u>Rubus</u> <u>parviflorus,</u> <u>Rubus</u> <u>occidentalis</u> <u>'Munger'</u>	P.W. Oman	683
<u>Meconema thalassinum</u> <u>a katydid</u>	RI	Newport	<u>Daucus carota</u>	E.R. Hoebeke	686
<u>Microctonus</u> <u>aethiopoides</u> <u>a braconid wasp</u>	IA	Louisa	<u>Hypera postica</u>	T.L. Burger	564
	WI	Trempealeau	<u>Hypera postica</u>	T.L. Burger	564
<u>Microctonus colesi</u> <u>a braconid wasp</u>	IN	Harrison	<u>Hypera postica</u>	R.J. Dysart	14
	KY	Campbell	<u>Hypera postica</u>	W.H. Day, R.J. Dysart, R.W. Fuester	565
	MI	Ionia	<u>Hypera postica</u>	W.H. Day R.J. Dysart R.W. Fuester	565

<u>Species</u>	<u>State</u>	<u>County or Island</u>	<u>Collected on</u>	<u>Determiner</u>	<u>CPPR Page</u>
<u>Monocesta coryli</u> Targer elm leaf beetle	OH	Scioto	hardwood forest	J.A. Wilcox	91
<u>Neodiprion sertifer</u> European pine sawfly	DE	New Castle	<u>Pinus</u> spp	D.F. Bray	50
<u>Olesicampe benefactor</u> an ichneumonid wasp	WI	Clark	<u>Pristiphora</u> <u>erichsonii</u>	D. Hall	328
<u>Ornithodoros hermsi</u> an argasid tick	OK	Le Flore	<u>Marmota monax</u>	J. Keirans	237
<u>Otiorynchus sulcatus</u> black vine weevil	KS	Johnson	<u>Juniperus</u> <u>horizontalis</u>	G.A. Salsbury	660
<u>Patasson luna</u> a mymarid wasp	WI	Columbia	<u>Hypera postica</u>	B.D. Burks, M.E. Schauff	688
<u>Pentamerismus</u> <u>erythreus</u> a tenuipalpid mite	FL	Pinellas	<u>Juniperus</u> sp.	E.W. Baker	129
<u>Periclista sulfurana</u> a tenthredinid sawfly	OK	Payne	<u>Quercus</u> <u>palustris</u>	D.R. Smith	50
<u>Peritrechus</u> <u>saskatchewanensis</u> a lygaeid bug	HI	Oahu	not given	J.L. Herring	286
<u>Phyllotreta pusilla</u> western black flea beetle	IL	Madison	<u>Armoracia</u> <u>rusticana</u>	E.H. Smith	196
<u>Phytocoris nigricollis</u> a mirid bug	VA	Prince George	<u>Glycine max</u>	E.R. Hoebeke	581
<u>Pissodes nemorensis</u> deodar weevil	OK	Pittsburg	<u>Pinus</u> sp.	D.R. Whitehead	50
<u>Polydrusus cervinus</u> a weevil	MA	Middlesex	hayfield	V.L. Blackburn	540
<u>Pseudaonidia duplex</u> a camphor scale	VA	Henrico	<u>Ilex crenata</u> <u>burfordii</u>	M.H. Rhoades	267
<u>Rhagoletis pomonella</u> apple maggot	OR	Multnomah	<u>Malus</u> <u>sylvestris</u>	R.L. Westcott	472
<u>Scatopse notata</u> a scatopsid fly	HI	Oahu	light trap	E.F. Cook	662
<u>Singa eugeni</u> an orb spider	FL	Levy	<u>Spartina</u> <u>alterniflora</u>	G.B. Edwards	144

<u>Species</u>	<u>State</u>	<u>County or Island</u>	<u>Collected on</u>	<u>Determiner</u>	<u>CPPR Page</u>
<u>Smicronyx pinguis</u> a weevil	MD	Baltimore	<u>Helianthus</u> sp.	D.M. Anderson	659
<u>Stilbus apicalis</u> a phalacrid beetle	HI	Oahu	light trap	P.J. Spangler, W. Steiner	662
<u>Tetranychus homorus</u> a tetranychid mite	FL	Marion	<u>Fraxinus americana</u>	H.A. Denmark	686
<u>Tetranychopsis horridus</u> a spider mite	OR	Marion	<u>Corylus avellana</u>	J.L. Mellott	641
<u>Tetrastichus julis</u> a eulophid wasp	WI	Walworth	<u>Oulema melanopus</u>	V.E. Montgomery	74
<u>Thecesternus affinis</u> a weevil	ND	Slope	no host	C.W. O'Brien	6
<u>Xanthochroa trinotata</u> an oedemerid beetle	FL	Columbia	blacklight trap	R.E. Woodruff	647
<u>Xylosandrus compactus</u> black twig borer	SC	Charleston	<u>Quercus laurifolia</u>	R.F. Bollinger	643

OTHER FINDS OF SPECIAL INTEREST

<u>Species</u>	<u>State</u>	<u>Significance</u>	<u>CPPR Page</u>
<u>Bursaphelenchus lignicolus</u> pinewood nematode	CA	First association with probably <u>Enoclerus</u> sp.	248
	FL	First association with a cerambycid beetle in North America	383
	IA	First transmission by cerambycid adults to red pine	627
<u>Ceratitis capitata</u> Mediterranean fruit fly	CA	First larval infestation since eradication in 1976	443

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5(36):695-703, 1980

ANNOUNCING NEW PLANT PROTECTION AND QUARANTINE PUBLICATIONS

This is the final issue of the Cooperative Plant Pest Report (CPPR). Plant Protection and Quarantine (PPQ) has elected to replace the CPPR, which deals mainly with domestic pest activities, with two publications: "separates" and a four-page newsletter directed toward plant protection activities. These new publications will continue to develop as PPQ alters its programs.

The "separates" will meet PPQ's need to treat information with greater depth and quality. The topics for some of the articles planned for the "separates" include: A list of pests concerned with export certification that will give the distribution of about 1,560 pest species; articles on pests not known to occur in the United States or of limited distribution; identification and taxonomic aids to assist PPQ personnel in identifying new pests; detection and survey methods; national summarizations of 10-15 major domestic pests; special situation reports with subjects ranging from activities of domestic or quarantine-related pests to the spread and abundance of economically important pests in the Western Hemisphere or the world; and information on international plant protection activity.

The newsletter will differ from a typical CPPR issue in that it will be generated or sent out on an "as needed" basis. The following items will generate a newsletter: Significant new United States records; alerts to impending danger of new pests; detailed information on significant interceptions at United States ports of entry to alert port and border inspectors to inspect certain commodities for notorious pests from geographically different areas of the world, those entering other than the usual ports and borders, or those associated with unusual commodities; and first finds of unestablished, economically important pests in regions distant from the known infested areas in the United States.

Other items that will be published in the newsletter, depending on the availability of data and space in the newsletter, include: Distribution records of (1) pests of concern to export certification, (2) selected major domestic pests, (3) PPQ program or related pests, and (4) pests previously known as exotics; first interceptions or regulatory finds in uninfested areas; bibliographic citations of recent books or papers on identification of any pest important to PPQ activities; changes in scientific or common names and data on new hosts of any pest published in the newsletter or the "separates"; lists of services available to expedite PPQ work; action taken on new pests; special situation reports; and announcements of "separates" that are available upon request.

METRIC CONVERSION

1 cm	=	0.393701 in
1 m	=	3.28084 ft = 1.09361 yd
1 km	=	0.621371 mi
1 sq cm	=	0.155000 sq in
1 sq m	=	10.7639 sq ft = 1.19599 sq yd
1 ha	=	2.47104 acres
1 sq km	=	0.386101 sq mi
1 kg	=	2.20462 lb
1 t (metric ton)	=	1.10231 short ton
1 kg/ha	=	0.892183 lb/acre
1 t/ha	=	0.446091 ton/acre

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